DAEWOO

Service Manual

XGA COLOR MONITOR

Model : 103FH

DAEWOO ELECTRONICS CO., LTD.

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SAFETY PRECAUTIONS

CAUTION: No modifications of any circuits should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines.

◆ Safety Check

Care should be taken while servicing this analog color display because of the high voltages used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

◆ Fire & Shock Hazard

- Insert an isolation transformer between the analog color display and AC power line before servicing the chassis.
- When servicing, pay close attention to the original lead dress especially in the high voltage circuit area; if a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- All the protective devices must be reinstalled per original design.
- Soldering must be inspected for possible cold solder points, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign materials.

◆ Implosion Protection

Picture tube in this monitor employs intergral implosion protection system, but care should be taken to avoid damage and scratching during installation.
Only use same type replacement picture tubes.

IMPORTANT SAFETY NOTICE: There are special components used in this analog color display, which are important for safety. These parts are shaded on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-Ray, shock, fire or other hazards. Do not modify the original design without getting written permission from DAEWOO ELECTRONICS CO. or this will void the original parts and labor warranty.

◆ X-Ray

WARNING: The only potential source of X-Ray is the picture tube. However when the high voltage circuitry is operating properly, there is no possibility of an X-Ray problem. The basic precaution which must be exercised is to keep the high voltage at the following factory recommended level.

NOTE: It is important to use an accurate, periodically, calibrated high voltage meter.

- To measure the high voltage, use a high-impedance high-voltage meter. Connect(-) to chassis and (+) to the CRT anode button.
- Turn the Contrast & Brightness Control fully counterclockwise.
- Measure the high voltage. The high voltage meter should indicate the following factory recommended levels.
- If the upper meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-Ray possibility, it is essential to use the specified picture tube.
- The normal high voltage is 25.5KV or below and must not exceed 29KV at zero beam current at rated voltage.

GENERAL SAFETY INFORMATION

◆ Terms in the manual

CAUTION Statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING Statements identify conditions or practices that could result in personal injury or loss of life.

◆ Terms as marked on equipment

CAUTION Statements indicate a personal injury hazard not immediately accessible as one reads the marking or a hazard which is properly included on the equipment itself.

WARNING Statements are clearly concerning indicated personal injury hazards.

◆ Symbols in the manual

The symbols indicate where applicable cautionary or other information is to be found.

◆ Symbols as marked on equipment

Protective GROUND terminal

◆ High Voltage Warning And Critical Component Warning Label

The following warning label is on the CRT PWB shield case inside the unit.

Warning: This product includes critical mechanical and electrical parts which are essential for x ray protection. For continued safety, replace critical components that are indicated in the service manual with exact replacement parts given in the parts list.
Operating high voltage with this product is 29Kv at minimum brightness. Refer to service manual for measurement procedures and proper service adjustments.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service manual, its supplements, and addendum, please read and follow the SAFETY PRECAUTIONS of this manual.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 1 of this manual, always follow the safety precautions. Remember: Safety First.

◆ General Servicing Precautions

1. Always unplug the AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
   b. Disconnecting or reconnecting any electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in a explosion.

   d. Discharging the picture tube anode.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM. etc.) equipped with a suitable high voltage probe. Do not test high voltage by “drawing an arc”.

3. Discharge the picture tube anode only by: (a) first connecting one end of an insulated clip lead to the degaussing or line grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touching the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.

4. Do not any spray chemicals on or near this instrument, or any of its assemblies.

5. Unless otherwise specified in this service manual, only clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick, or comparable nonabrasive applicator: 10% (by volume) Aceton and 90% (by volume) isopropyl alchohol (90%-99% strength).

   CAUTION: This is a flammable mixture. Unless specified in this service manual, lubrication of contacts is not required.

6. Do not damage any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.

7. Do not apply AC power to this instrument and/or any other of its electrical assemblies unless all the solid-state device heat sinks are correctly installed.

8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

9. Only use the test fixtures specified in this service manual with this instrument.

   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

◆ Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity.
Such components are commonly called Electrostatically Sensitive (ES) Devices.
The typical examples of ES devices are integrated circuits, some field-effect transistors, and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, wipe off any electrostatic charge on your body by touching any known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device which should be removed for potential shock reasons prior to applying power to the unit under testing conditions.

2. After removing the electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil to prevent electrostatic charge buildup or exposure to the assembly.

3. Only use a grounded-tip soldering iron to solder or unsolder ES devices.

4. Only use an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate enough electrical charges to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate enough electrical charges to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).

7. Immediately before removing the protective material from the leads of replacement ES devices, touch the protective material to the chassis or circuit assembly into which the device will be installed.

> **CAUTION:** Be sure that no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily movements when handling unpackaged replacement ES devices. (Otherwise harmful motion such as the brushing together clothes fabric or the lifting your foot from a carpeted floor can generate enough static electricity to damage ES devices).

◆ General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron with appropriate tip size and shape that will maintain tip temperature between a 550°F-660°F (288°C-316°C) range.

2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean.

4. Throughly clean the surface to be soldered. Use a small wire-bristle (0.5 inch or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following soldering technique:
   a. Allow the soldering iron tip to reach normal temperature (550°F to 660°F or 288°C to 316°C)
   b. Hold the soldering iron tip and solder strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there until the solder flows onto and around both the component lead and the foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

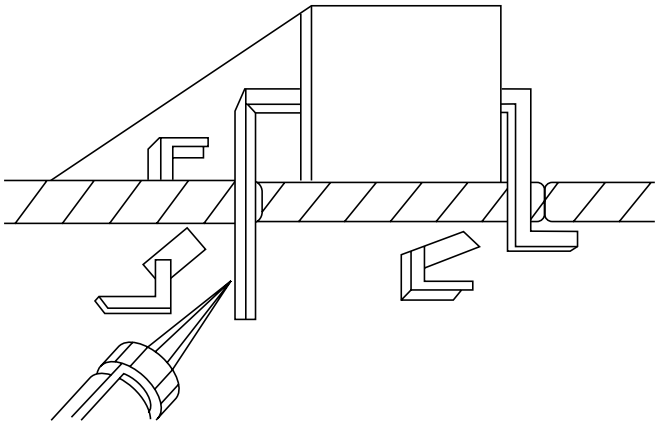


FIGURE 1. USE SOLDERING IRON TO PRY LEADS

◆ IC Removal/Replacement

Some utilized chassis circuit boards have slotted (oblong) holes through which the IC leads are inserted and then bent flat against the circuit foil. When holes are slotted, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 on the page under the title of general soldering guidelines.

◆ Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with desoldering braid before removing the IC.

◆ Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (lt is not necessary to reapply acrylic coating to the area).

◆ “Small-Signal” Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend the ends of each of three leads remaining on the circuit board into a “U” shape.
3. Bend the replacement transistor leads into a “U” shape.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the “U” with long nose pliers to ensure metal-to-metal contact, then solder each connection.

◆ Power IC, Transistor or Devices Removal/Replacement

1. Heat and remove all solders from the device leads.
2. Remove the heatsink mounting screw (if applicable).
3. Carefully remove the device from the circuit board.
4. Insert new device in circuit board.
5. Solder each device lead and then clip off excess lead.
6. Replace heatsink.

◆ Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect the solder joints of the two “original” leads on the circuit board copper side. If they are not shiny, reheat them and apply additional solder if necessary.

TECHNICAL INFORMATION

Picture Tube

Type : 21-inch, Flat Square Tube type
(20-inch, viewing area)
Dot Pitch : 0.25mm
Face Treatment : Anti-reflect / Anti-static

Video

Input Signal : R.G.B Analog
Pixel Clock : 230 MHz
Input Sync : TTL, separate negative / positive
H+V Sync. on Green, negative
Composite H+V Sync. negative / positive

Scan Frequency

Horizontal : 30-107 KHz(automatic)
Vertical : 50-160 Hz(automatic)

Max. Resolution

1600 dots X 1200 lines (at 85Hz)

Power Source

Free Voltage (100-240 Vac, 50/60Hz)

Display Area

Standard Display Area : 380mm(H)X285mm(V)
Full Screen Size : 400mm(H)X300mm(V)

Power Consumption

Max. 135W

State	Recovery Time	Power LED
On	None	Green
Stand-by Suspend	3 seconds	Yellow
Off	-	Amber

Dimension

494(W)X500(H)X518(D)mm
(set with stand)

Weight (Net/Gross)

28.0/31.5 kg

Operating Environment

Temperature : 10~40°C/50~104°F
Relative Humidity : 8~80%

Storage Environment

Temperature : -20~45°C/-4~113°F
Relative Humidity : 5~90%

GENERAL INFORMATION

This color monitor automatically scans all horizontal frequencies from 30KHz to 107KHz, and all vertical frequencies from 50Hz to 160Hz. This color monitor adopted the OSD (On Screen Display), it shows the sync polarity and frequency and it provides that easily adjust control. This color monitor supports IBM PC, PC/XT, PC/AT, personal System/2 (PS/2), Apple Macintosh, and compatible users crisp text and vivid color graphics display when using the following graphics adapters : (VGA, 8514/A, Super VGA, VESA and XGA and Apple Macintosh Video Card). And so, this color monitor has a maximum horizontal resolution of 1600 dots and a maximum vertical resolution of 1200 lines for superior clarity of display.

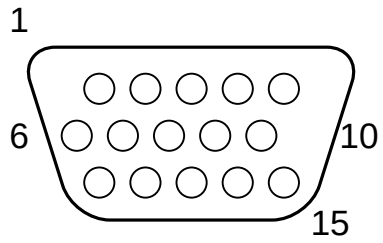
By accepting analog signal inputs which level is zero to 0.7 Volts. This color monitor can display and unlimited palette of colors depending on the graphics adapter and software being used.

◆ Abbreviations

ADJ	Adjustment
AFC	Automatic Frequency Control
CRT	Cathode Ray Tube
Def	Deflection
D.Y	Deflection Yoke
HVG	High Voltage Generator
H.SYNC	Horizontal Synchronization
OSC	Oscillator
P.S.U	Power Supply Unit
PWA	Printed Circuit Board Wiring Assembly
R.G.B	Red, Green, Blue
V.Sync	Vertical Synchronization

PIN CONNECTOR

Pin	Signal
1	Red
2	Green
3	Blue
4	GND
5	GND
6	GND - Red
7	GND - Green
8	GND - Blue
9	+5Vdc
10	GND - H.Sync
11	GND - V.Sync
12	Bi-directional Data (SDA)
13	Horizontal Sync
14	Vertical Sync (VCLK)
15	Data Clock (SCL)



Arrangement of 15-pin D-sub connector

CAUTIONS FOR ADJUSTMENT AND REPAIR

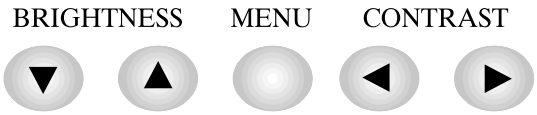
- Degaussing is always required when adjusting purity or convergence.
- The white balance adjustment has been done by a color analyzer in factroy. The adjustment procedure, described in the service manual is made by a visual check.
- Allow 20 minutes warm-up time for the display before checking or adjusting only electrical specification or function.
- Reform the leadwire after any repair work.

◆ Caution For Servicing

- In case of servicing or replacing CRT, high voltage sometimes remains in the anode of the CRT. Completely discharge high voltage before servicing or replacing CRT to prevent a shock to the serviceman.

OPERATION & ADJUSTMENT

Control Panel



- Move cursor to the right window on the OSD window.
- Increase the value of any selected function.

- Move cursor to the left window on the OSD window.
- Decrease the value of any selected function.

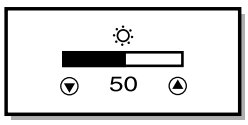
- Launch OSD(On-Screen Display) MENU window.

- Move cursor to the high window on the OSD window.
- Increase the value of V.size or V.center.

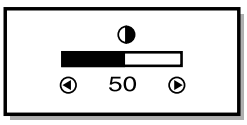
- Move cursor to the low window on the OSD window.
- Decrease the value of V.size or V.center.

Hot Key

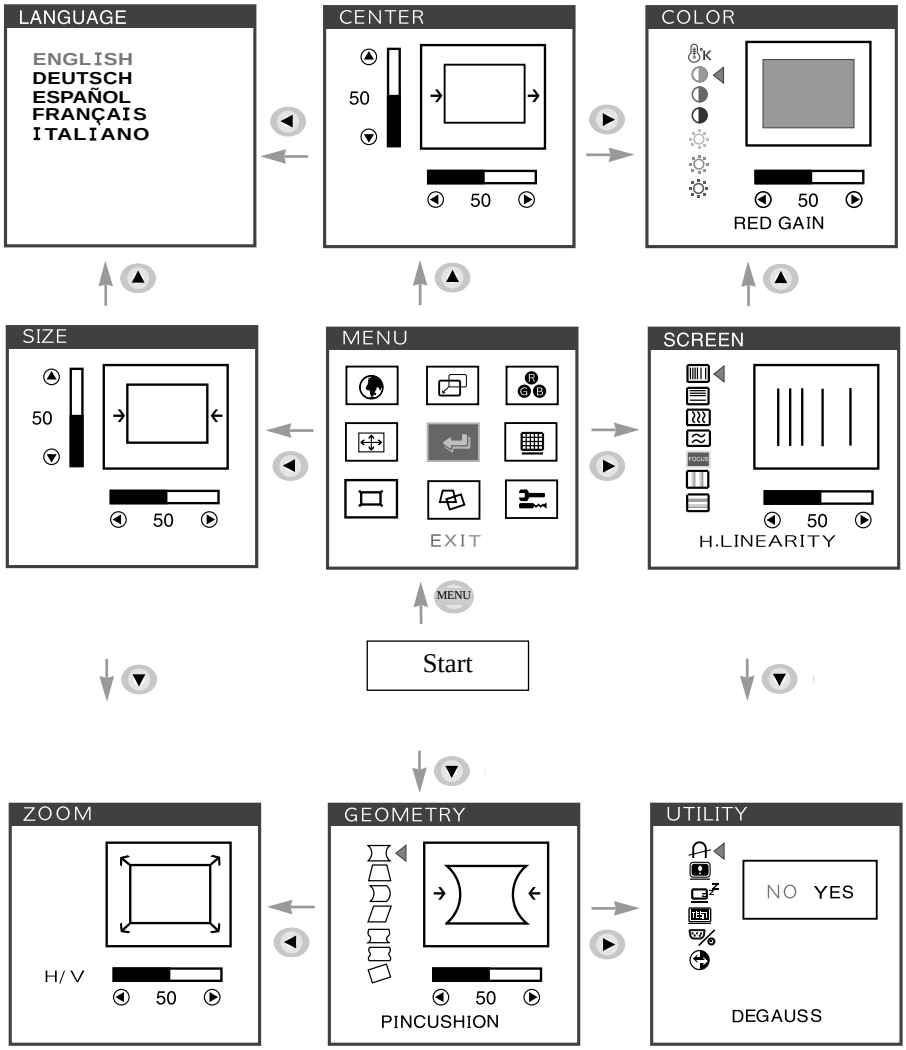
BRIGHTNESS



CONTRAST



Key Process



- When you choose the icon on the OSD window, you can exit the OSD screen.

OSD Functions

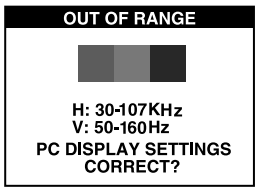
ICON	CONTROL	FUNCTIONS
	LANGUAGE	Select language for OSD (5 languages).
	H. CENTER & V. CENTER	Adjust the position of the display horizontally(left or right) and vertically (up or down).
	COLOR TEMP	Choose different preset color temperatures or set your own customized color parameters.
	RED GAIN	Adjust the red gain.
	GREEN GAIN	Adjust the green gain.
	BLUE GAIN	Adjust the blue gain.
	RED BIAS	Adjust the red bias.
	GREEN BIAS	Adjust the green bias.
	BLUE BIAS	Adjust the blue bias.
	H. SIZE & V. SIZE	Adjust the width (horizontal size) and the height (vertical size) of the display.
	H. LINEARITY	Adjust the horizontal linearity.
	V. LINEARITY	Adjust the vertical linearity.
	H. MOIRE	Adjust the horizontal picture moire cancellation.
	V. MOIRE	Adjust the vertical picture moire cancellation.
	FOCUS	Adjust the focus image.
	H.CONVERGENCE	Adjust the horizontal convergence image.
	V.CONVERGENCE	Adjust the vertical convergence image.

ICON	CONTROL	FUNCTIONS
	ZOOM	Adjust the display width & height at the same time.
	PINCUSHION	Adjust the left and right margins for more convex or more concave margins.
	TRAPEZOID	Adjust the trapezoid of the screen by moving the lines inward or outward.
	PIN BALANCE	Adjust the side balance when the sides of the screen are bowed towards left or right.
	PARALLELOGRAM	Adjust the parallelogram when the screen is leaning left or right.
	PIN S Control	Adjust the pin S control when the sides of the screen are in a S shape.
	PIN W Control	Adjust the pin W control when the sides of the screen are in a W shape.
	ROTATION	Adjust the rotation when the screen is tilted left or right.
	DEGAUSS	Degaussing keeps the monitor free from unwanted magnetism that can result in color impurity.
	STATUS	Display horizontal & vertical frequency and polarity.
	POWER SAVER	YES : VESA DPMS operation. NO : NO DPMS operation.
	TEST PATTERN	Display a RGB Color Bar to determine whether the screen color is expressed normally or not.
	BNC/D-SUB	Select a input signaling type between D-sub and BNC connector.
	RECALL	Reset the screen to the Factory Preset Display Settings.

Self Diagnosis

When the monitor doesn't display, if you press any key, Self Diagnosis screen is displayed. Self Diagnosis function checks if the status of the monitor is No Signal or Out of range.

No Signal screen is displayed when the D-Sub signal connector is not connected or the status of the monitor is on DPMS mode.



Out of Range screen is displayed when the applied frequency is under or over normal range.

■ Normal range
H : 30 - 107 KHz
V : 50 - 160 Hz

ALIGNMENT PROCEDURE

Standard Adjustment Conditions

1. Power source voltage : AC 100 - 240Vac, 50/60Hz.
2. Aging : Take at least 15 minutes warm-up time.
3. Signals.
   Video : Analog 0.7Vpp 75Ω terminal positive polarity
   Synchronizing : H+V Sync on Green : 0.286Vpp ± 5% (Negative)
   Composite H+V Sync : 1.0Vpp ~5.0Vpp (Positive / Negative)
   Separate H, V Sync : TTL Level (Positive / Negative)
   Deflection frequency
   Horizontal Frequency : 30KHz - 107KHz
   Vertical Frequency : 50Hz - 160Hz

Method to launch the factory mode

Step1. Push the menu button.
Step2. Push the brightness control button (▼/▲) for 5 times in same time.

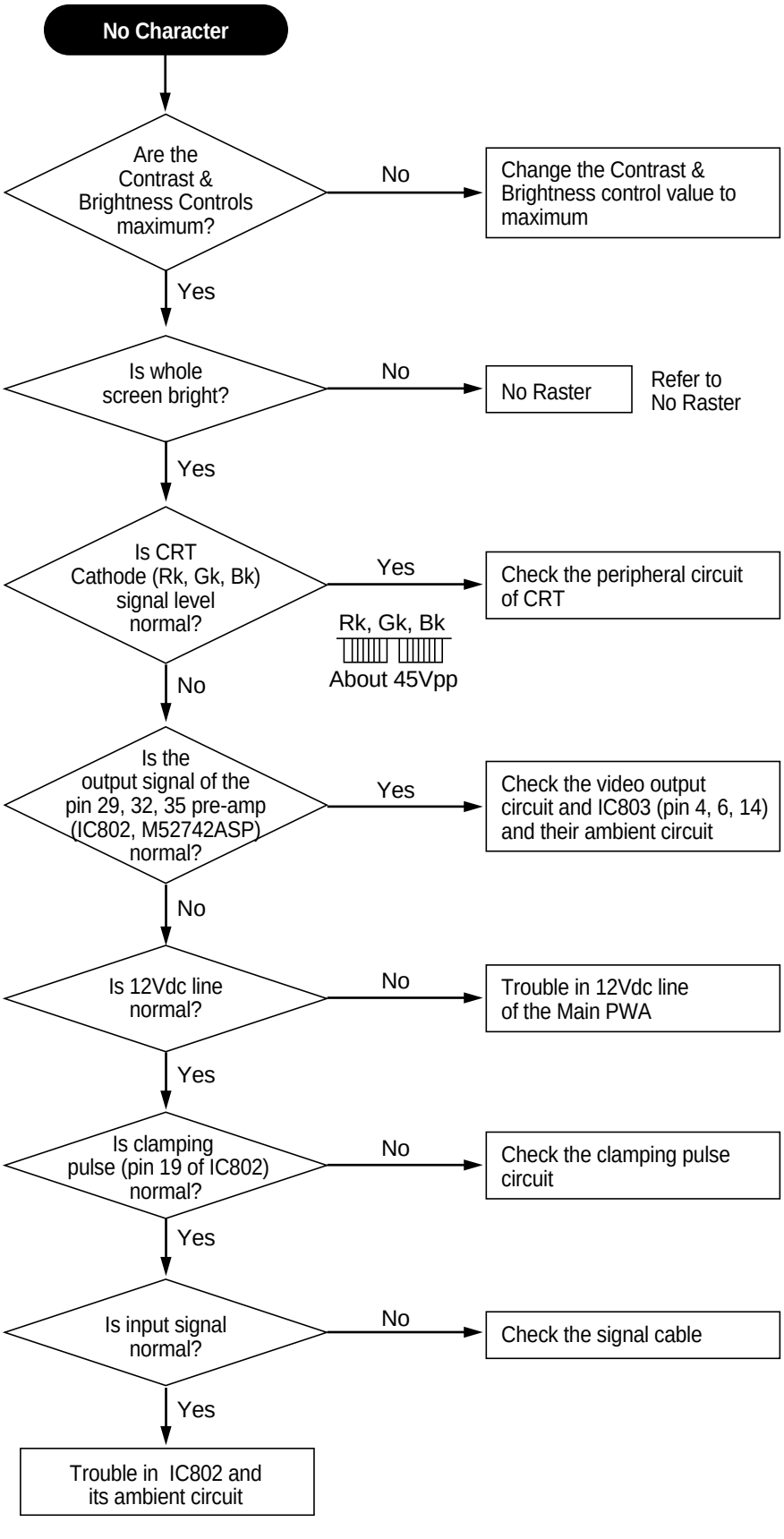
Main Adjustment

1. Setting the Controls
   Set contrast and brightness in Control Menu unless otherwise specified.
   Contrast : Max.
   Brightness : Center
2. H.size, H.center, V.size, H.center, Side Pincushion, Pincushion S, Pincushion W, Trapezoid, Parallelogram, Rotation, Pin Balance, H.Linearity, V.Linearity
   Receive the cross hatch pattern of Factory preset mode.
   H.size, H.center, V.size, H.center, Side Pincushion, Pincushion S, Pincushion W, Trapezoid, Parallelogram, Rotation, Pin Balance, H.Linearity, V.Linearity controls are adjusted at each mode.
   In Factory, Auto Alignment was done at each mode. Therefore, Factory preset mode has it's own value according to each control.
3. Focus
   (a) Set brightness control to Center and contrast control to Max.
   (b) Receive all "H" character pattern of 94KHz mode signal.
   (c) Adjust the Static Focus VR to obtain best H.Focus.
   (d) Adjust the Dynamic Focus VR to obtain best V.Focus.
   (e) If the H/V Focus is not satisfactory, readjust the Static / Dynamic Focus.
4. White Balance Adjustment.
   (a) Select 9300°K on the OSD Menu.
   (b) Receive a full white pattern of 94KHz.
   (c) Select the brightness and the contrast controls to the maximum and each R.G.B. Gain/Bias controls to the initial values.
   (d) Cut off the HVG screen VR.
   (e) Receive all the black patterns and adjust HVG screen VR the screen luminosity to be approx. 0.5 ±0.1 Ft/L.
   (f) Select the R - BIAS, G - BIAS and B - BIAS on the OSD menu and adjust the ◄/► key to get the color coordinates in X=0.281, Y=0.311.
   (g) Adjust screen VR the screen luminosity to be 0.5±0.1 Ft/L.
   (h) Select the brightness control to the center (50).
   (i) Receive a G.Signal.
   (j) Select the G - GAIN on the OSD menu and adjust the ◄/► key to get the screen luminosity up to 23Ft/L.
   (k) Receive a full white pattern of 94KHz.

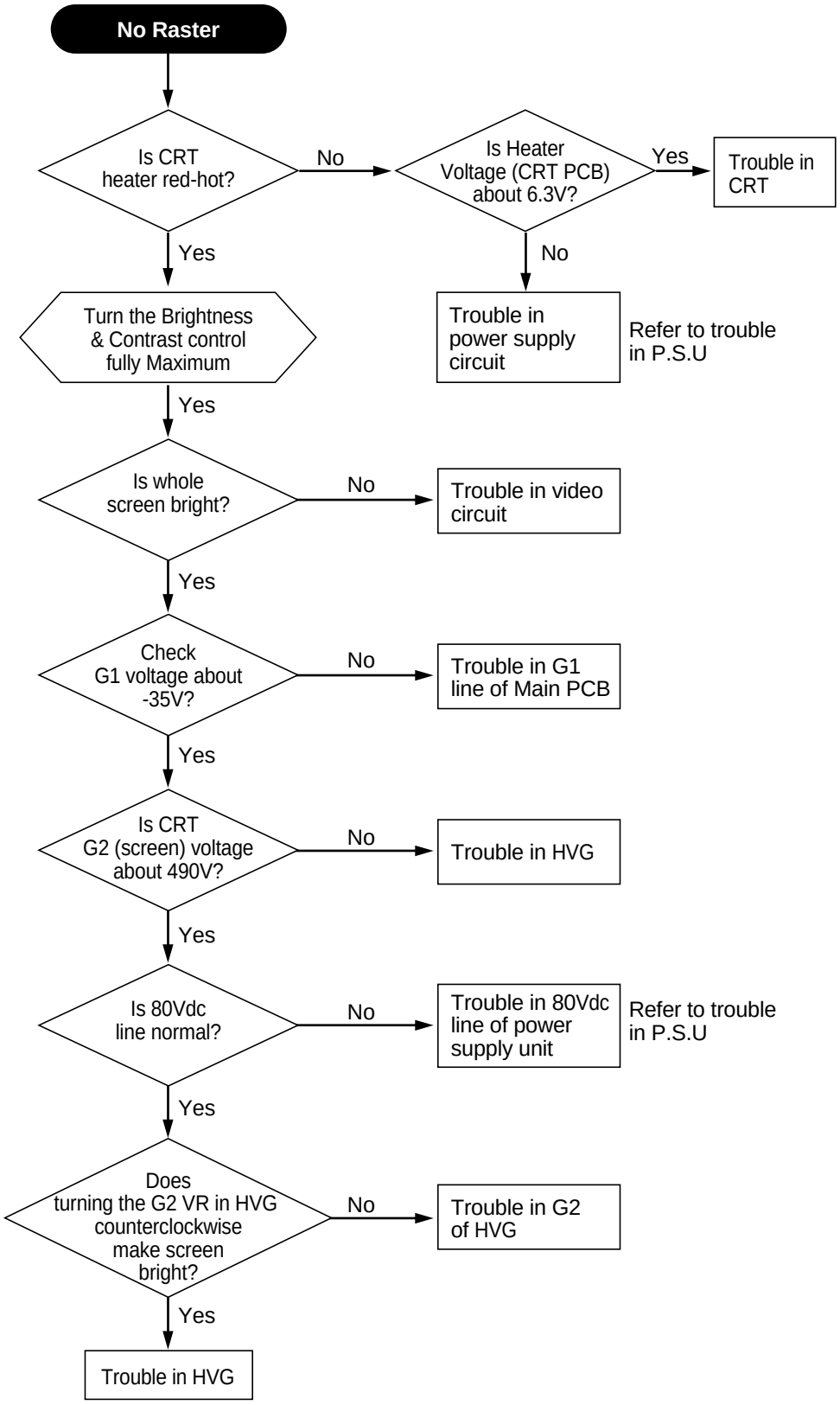
(l) Select the B - GAIN and adjust the ◄/► key to get the color coordinates in Y=0.311±0.015.
(m) Select the R - GAIN and adjust the ◄/► key to get the color coordinates in X=0.281±0.015.
(n) Adjust the ABL VR to get the screen luminosity up to 26Ft/L.
(o) Check if the x,y coordinates of color analyzer is in x=0.281 ± 0.015, y=0.311 ± 0.015.
If the color coordinates is out of range, adjust the R.G.B Bias & Gain to get the coordinates in X=0.281, Y=0.311. Make sure that the coordinates is in range by using contrast control.
(p) Receive a small white pattern of 94KHz.
(q) Select the SUB CONTRAST CONTROL on the OSD menu and adjust the ◄/► key to get the screen luminosity up to 36Ft/L.
(r) Check the screen luminosity up to 28Ft/L in brightness & contrast control to the maximum. If the screen luminosity is not satisfactory, readjust from the step (g).

TROUBLESHOOTING HINTS

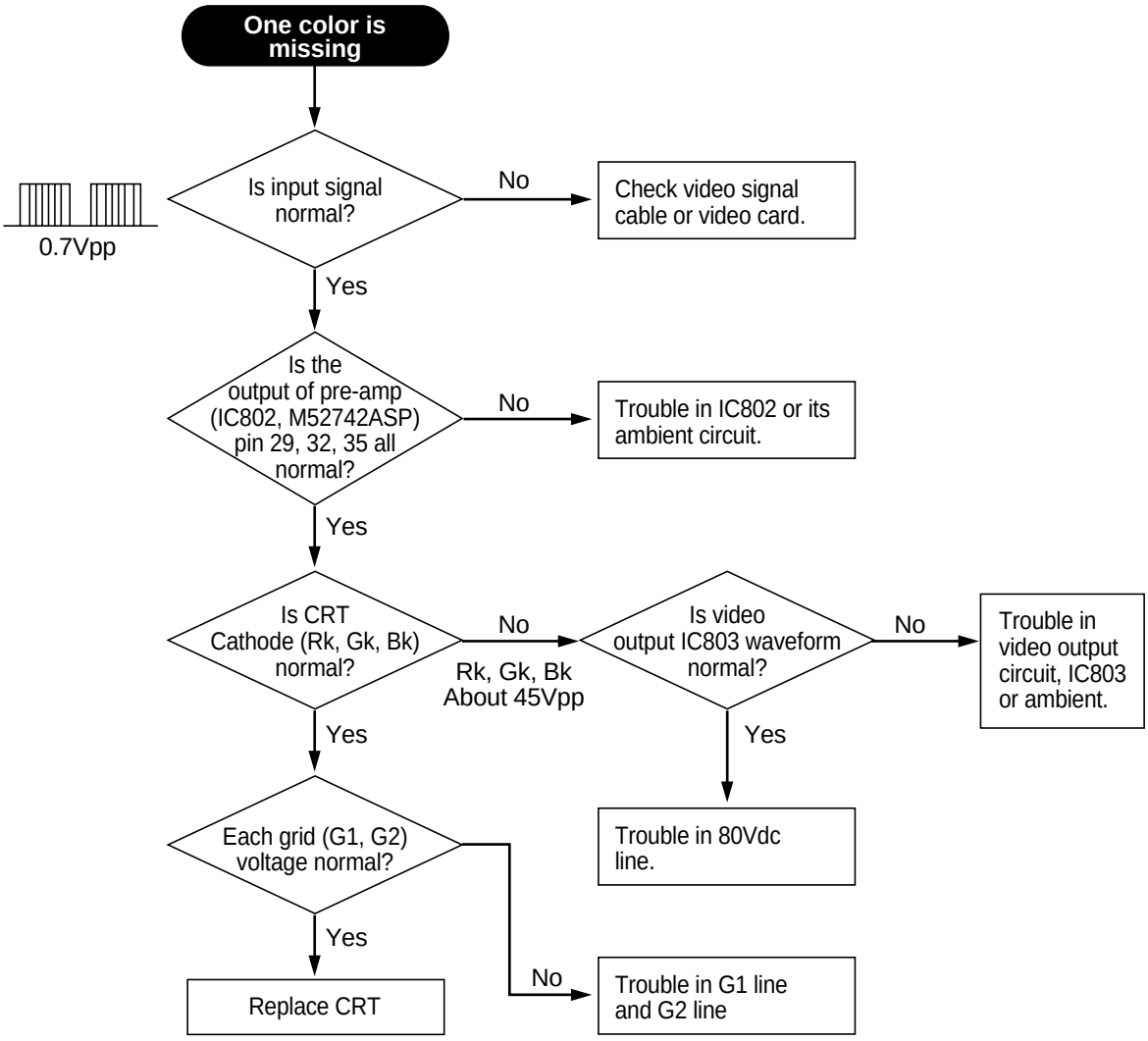
1. No Character


No Character
Are the Contrast & Brightness Controls maximum?
No
Change the Contrast & Brightness control value to maximum
Yes
Is whole screen bright?
No
No Raster
Refer to No Raster
Yes
Is CRT Cathode (Rk, Gk, Bk) signal level normal?
Yes
Check the peripheral circuit of CRT
Rk, Gk, Bk
About 45Vpp
No
Is the output signal of the pin 29, 32, 35 pre-amp (IC802, M52742ASP) normal?
Yes
Check the video output circuit and IC803 (pin 4, 6, 14) and their ambient circuit
No
Is 12Vdc line normal?
No
Trouble in 12Vdc line of the Main PWA
Yes
Is clamping pulse (pin 19 of IC802) normal?
No
Check the clamping pulse circuit
Yes
Is input signal normal?
No
Check the signal cable
Yes
Trouble in IC802 and its ambient circuit

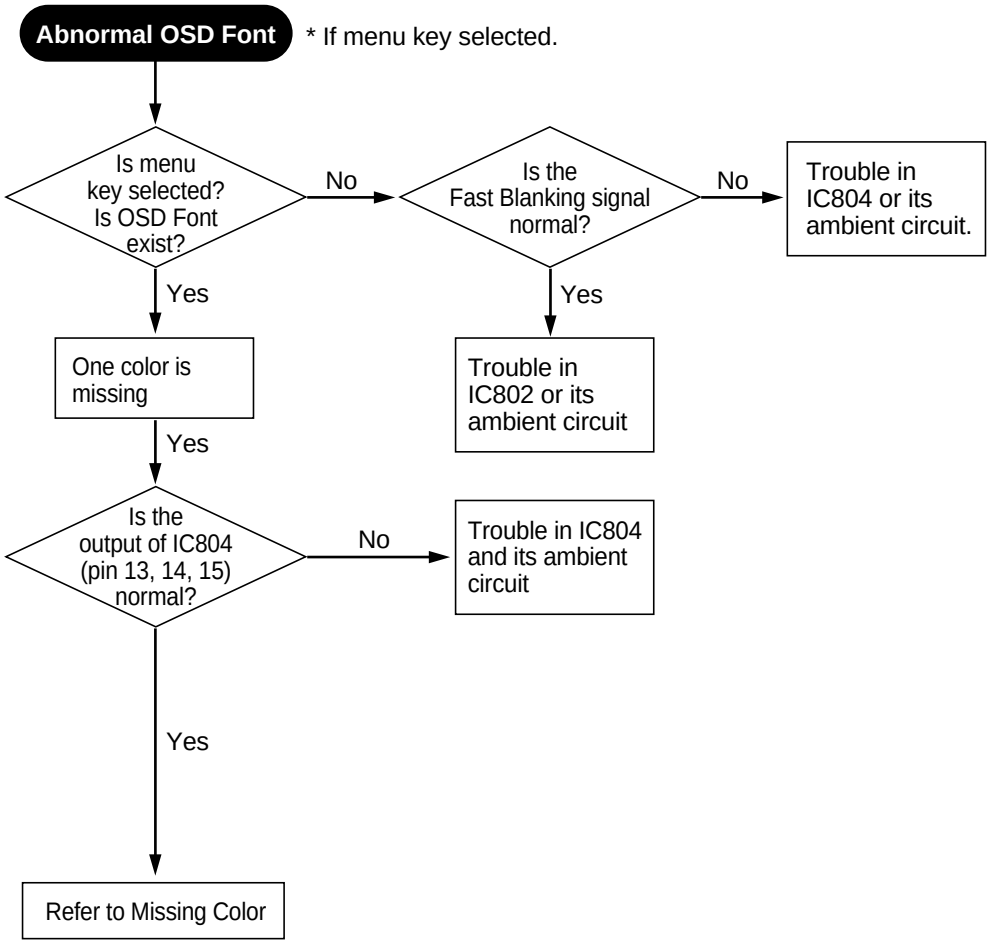
2. No Raster


No Raster
Is CRT heater red-hot?
No
Is Heater Voltage (CRT PCB) about 6.3V?
Yes
Trouble in CRT
Yes
No
Turn the Brightness & Contrast control fully Maximum
Trouble in power supply circuit
Refer to trouble in P.S.U
Yes
Is whole screen bright?
No
Trouble in video circuit
Yes
Check G1 voltage about -35V?
No
Trouble in G1 line of Main PCB
Yes
Is CRT G2 (screen) voltage about 490V?
No
Trouble in HVG
Yes
Is 80Vdc line normal?
No
Trouble in 80Vdc line of power supply unit
Refer to trouble in P.S.U
Yes
Does turning the G2 VR in HVG counterclockwise make screen bright?
No
Trouble in G2 of HVG
Yes
Trouble in HVG

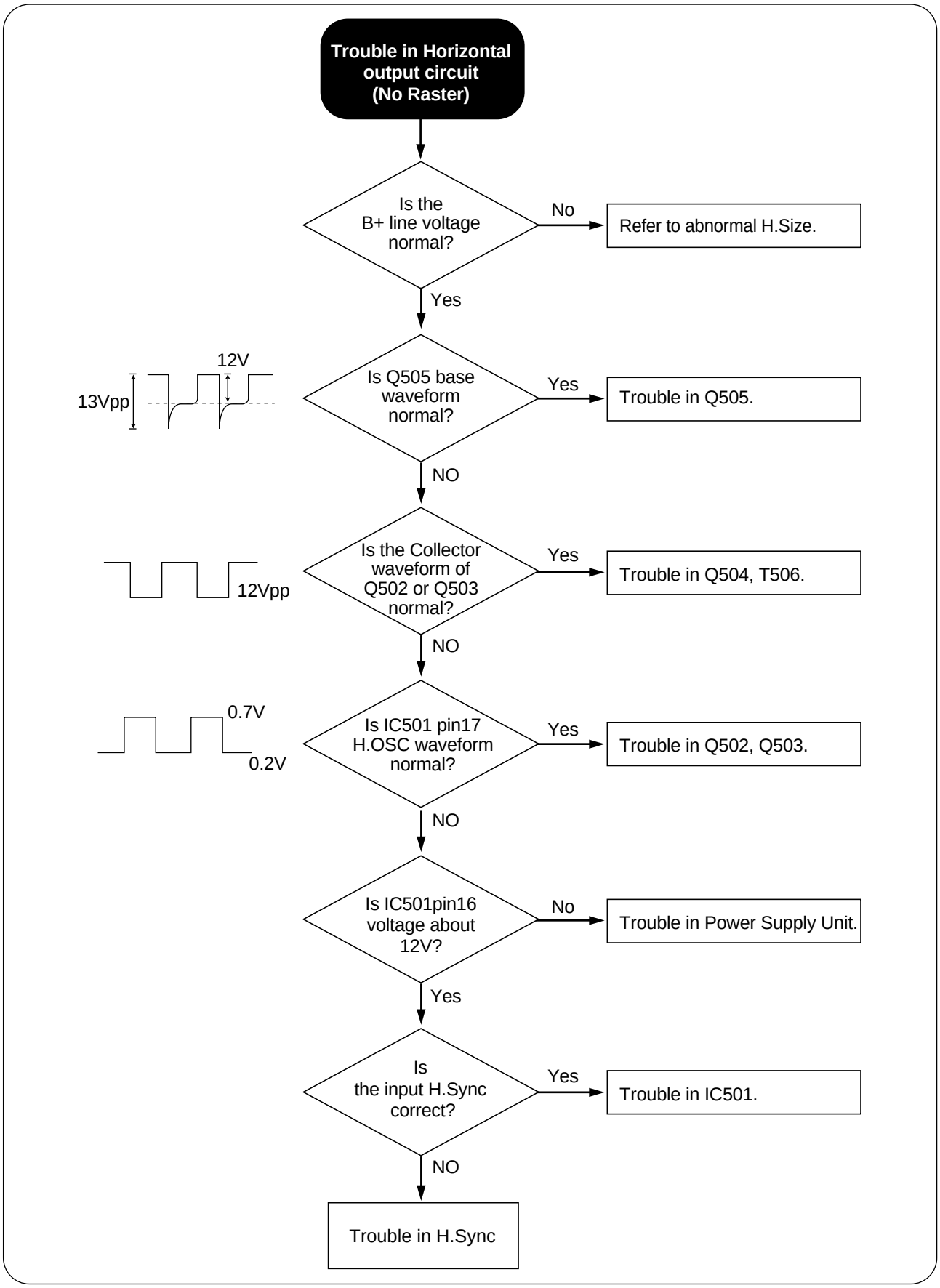
3. A missing Color



4. Abnormal OSD Font

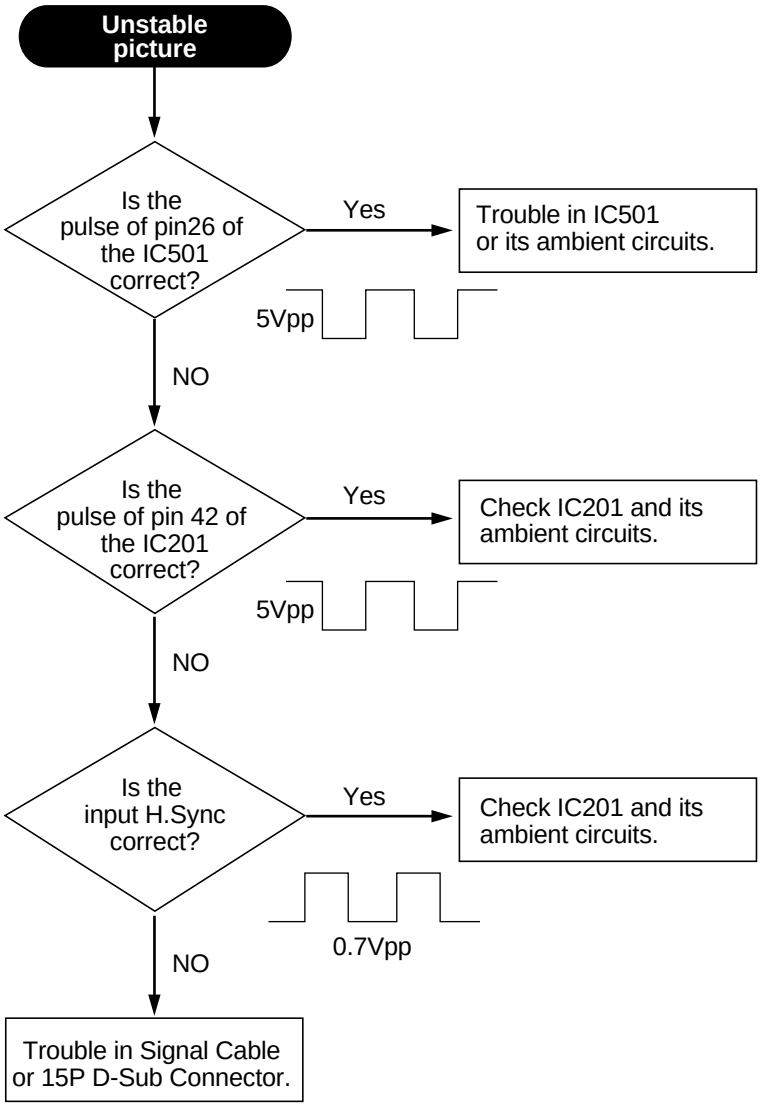

Abnormal OSD Font
* If menu key selected.
Is menu key selected? Is OSD Font exist?
No
Is the Fast Blanking signal normal?
No
Trouble in IC804 or its ambient circuit.
Yes
Yes
One color is missing
Trouble in IC802 or its ambient circuit
Yes
Is the output of IC804 (pin 13, 14, 15) normal?
No
Trouble in IC804 and its ambient circuit
Yes
Refer to Missing Color

5. Horizontal Output Circuit

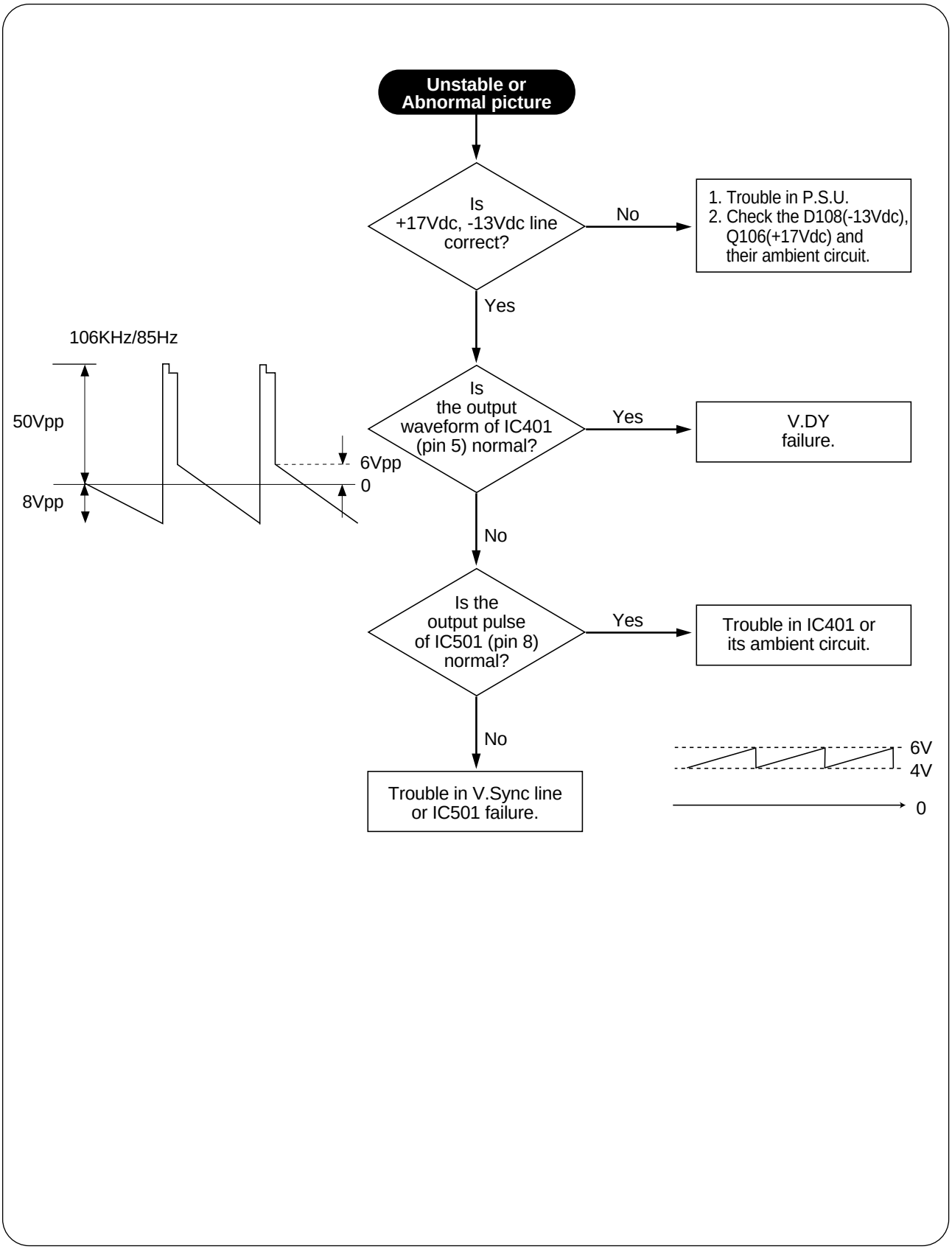


6. Unstable Picture

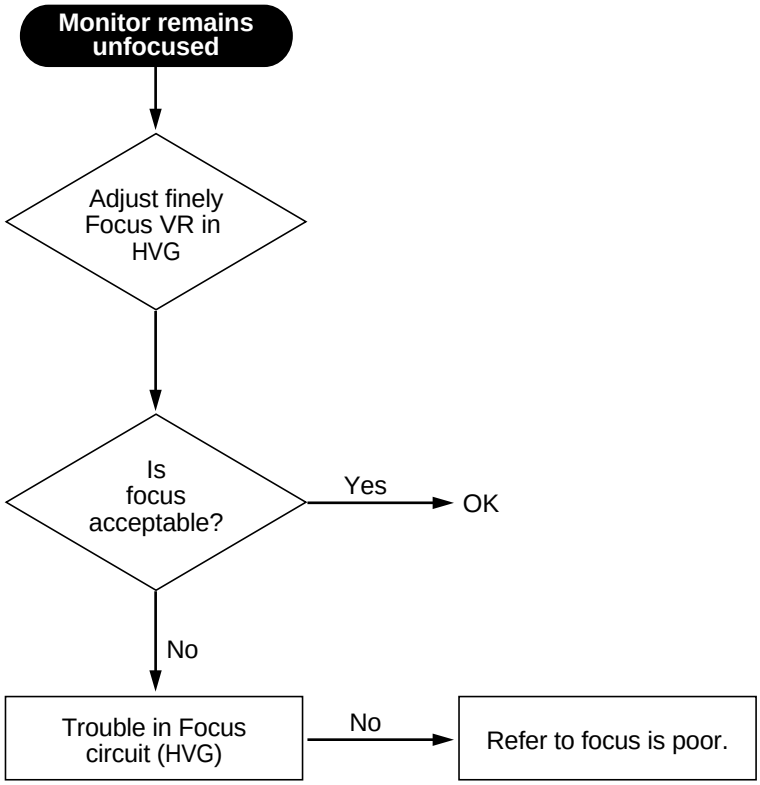
6-1. Horizontal



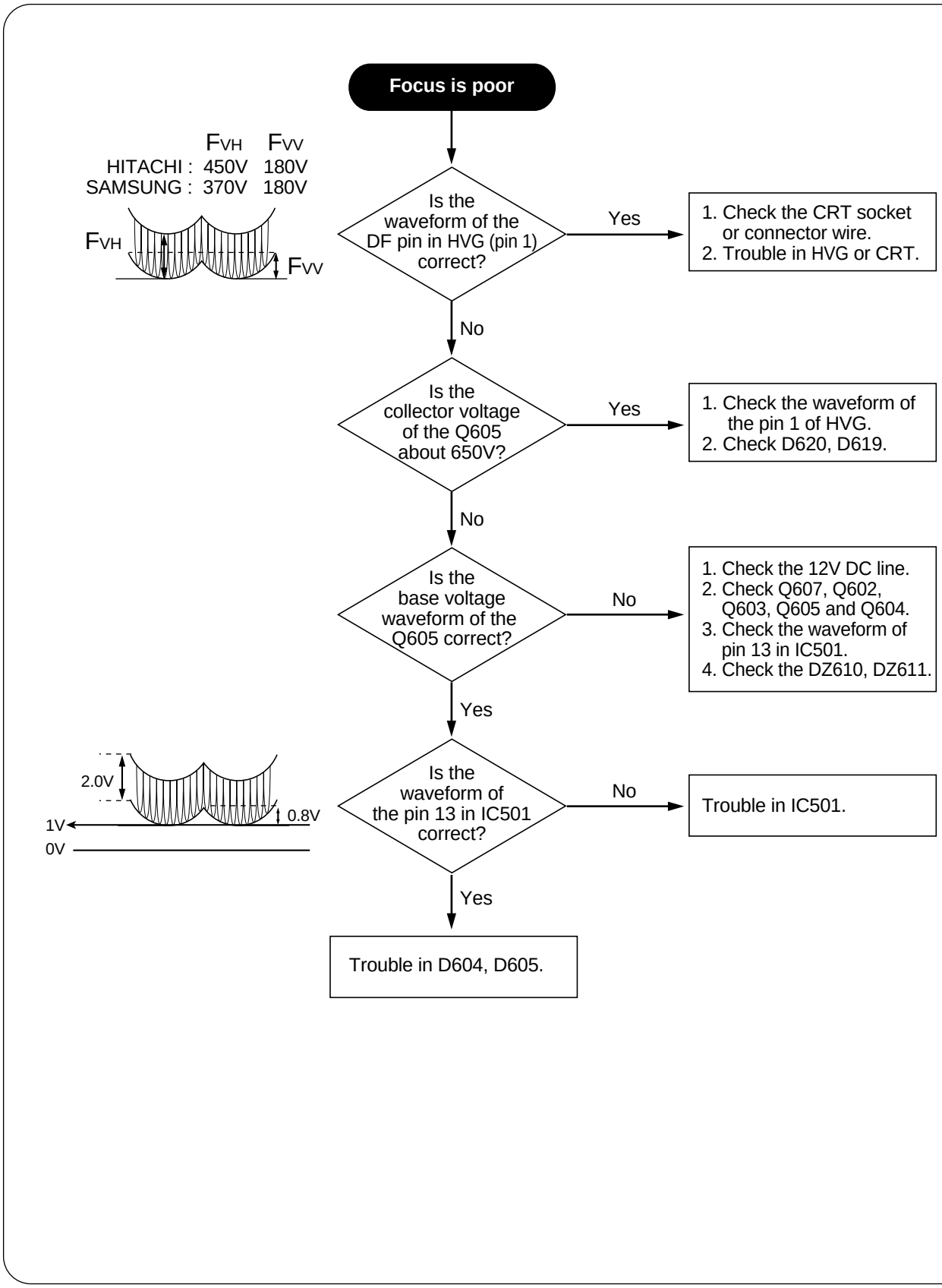
6-2. V.OSC/Deflection Circuit



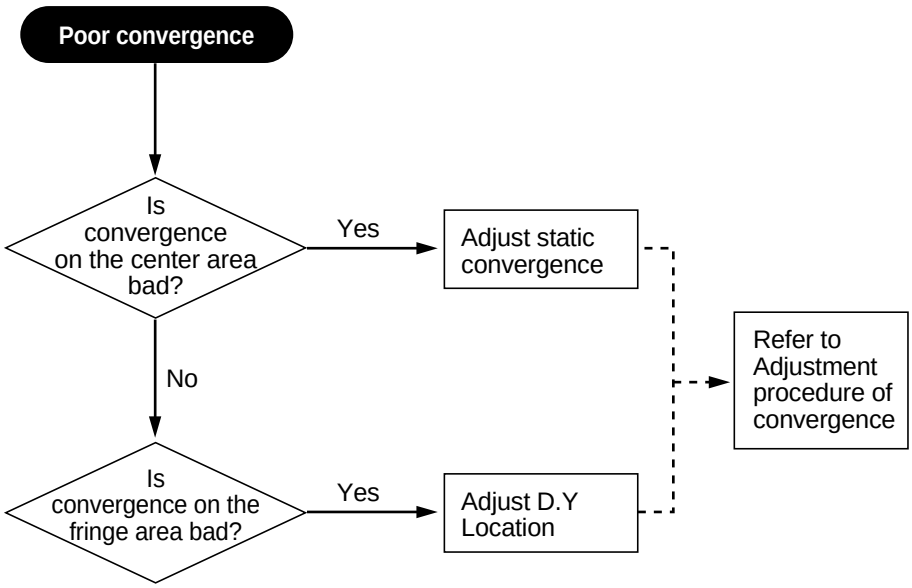
7. Focus


Monitor remains unfocused
Adjust finely Focus VR in HVG
Is focus acceptable?
Yes
OK
No
Trouble in Focus circuit (HVG)
No
Refer to focus is poor.

7-1. Dynamic Focus


Focus is poor
FVH FVV
HITACHI : 450V 180V
SAMSUNG : 370V 180V
FVH
FVV
Is the waveform of the DF pin in HVG (pin 1) correct?
Yes
1. Check the CRT socket or connector wire.
2. Trouble in HVG or CRT.
No
Is the collector voltage of the Q605 about 650V?
Yes
1. Check the waveform of the pin 1 of HVG.
2. Check D620, D619.
No
Is the base voltage waveform of the Q605 correct?
No
1. Check the 12V DC line.
2. Check Q607, Q602, Q603, Q605 and Q604.
3. Check the waveform of pin 13 in IC501.
4. Check the DZ610, DZ611.
Yes
2.0V
0.8V
1V
0V
Is the waveform of the pin 13 in IC501 correct?
No
Trouble in IC501.
Yes
Trouble in D604, D605.

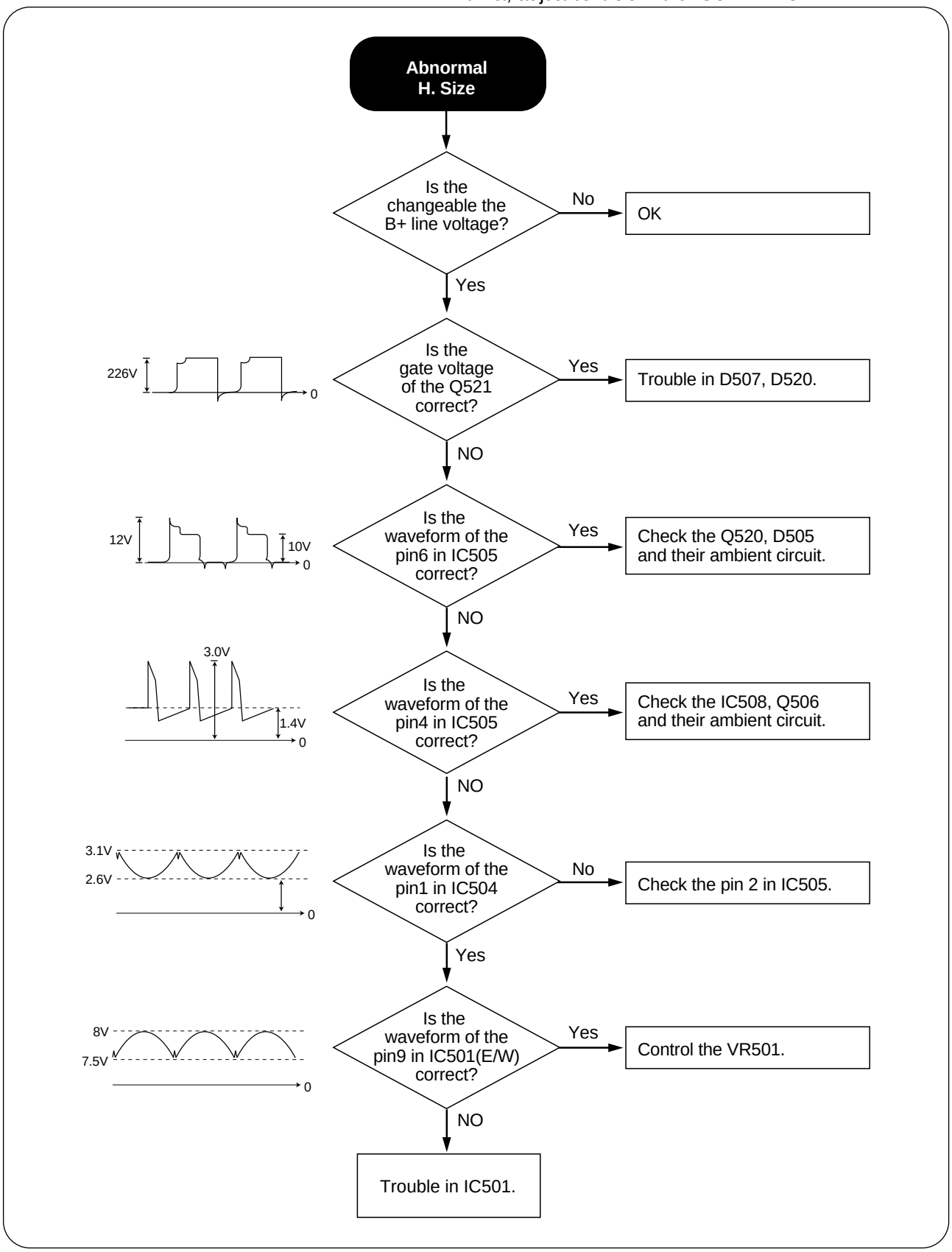
8. Convergence



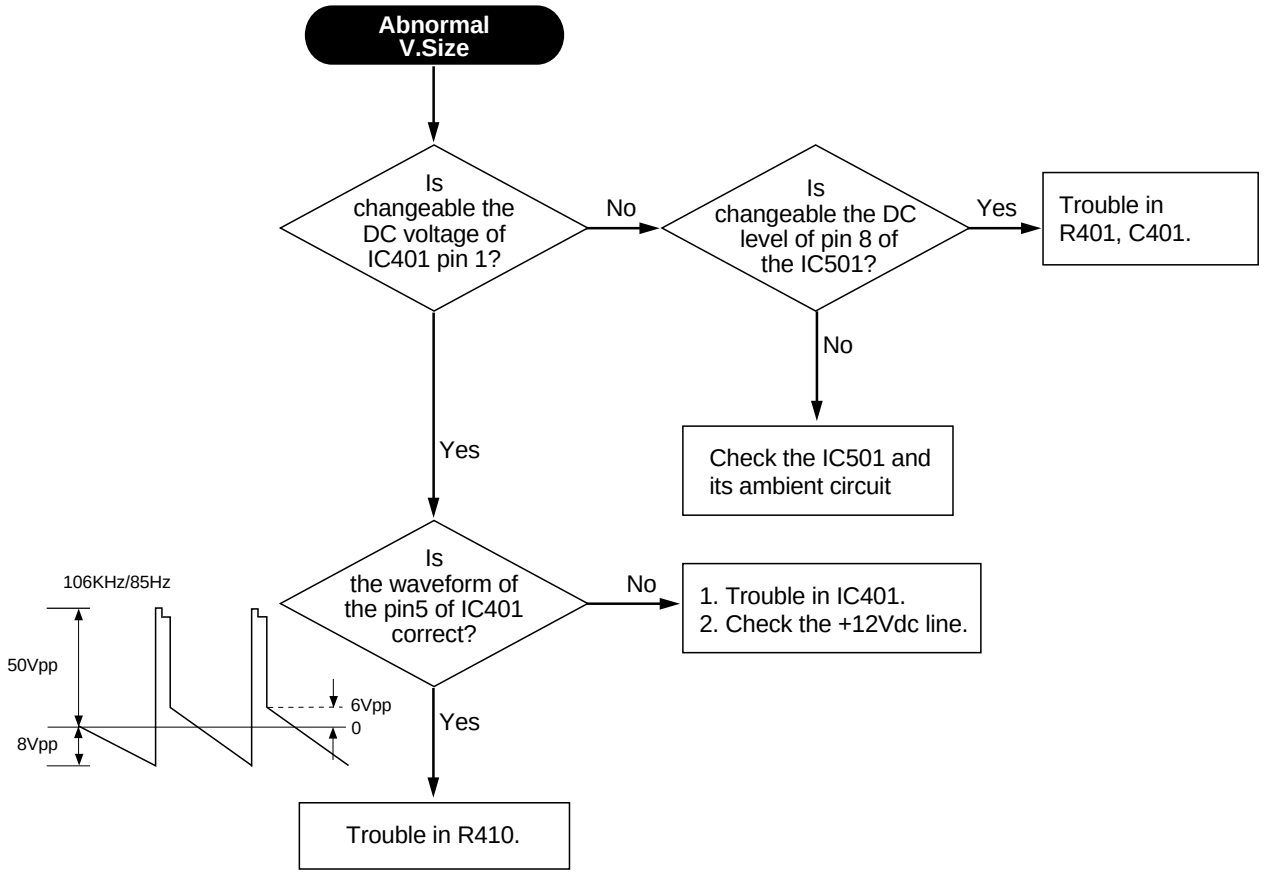
9. Abnormal Picture

9-1. Horizontal Size

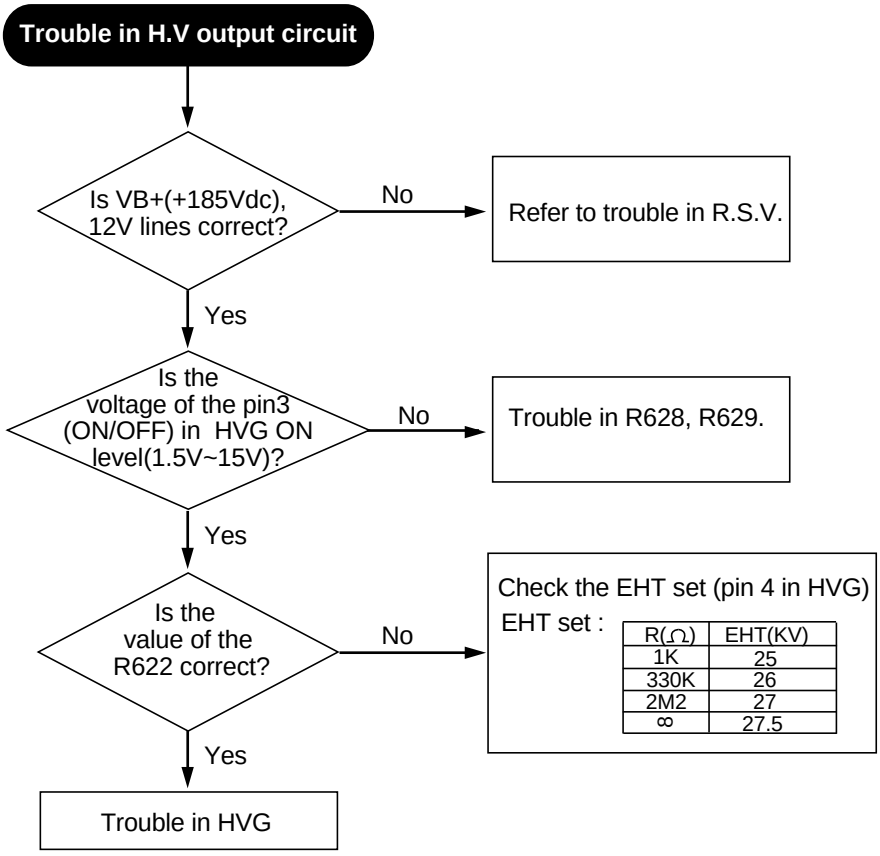
*At first, adjust controls in the OSD MENU.



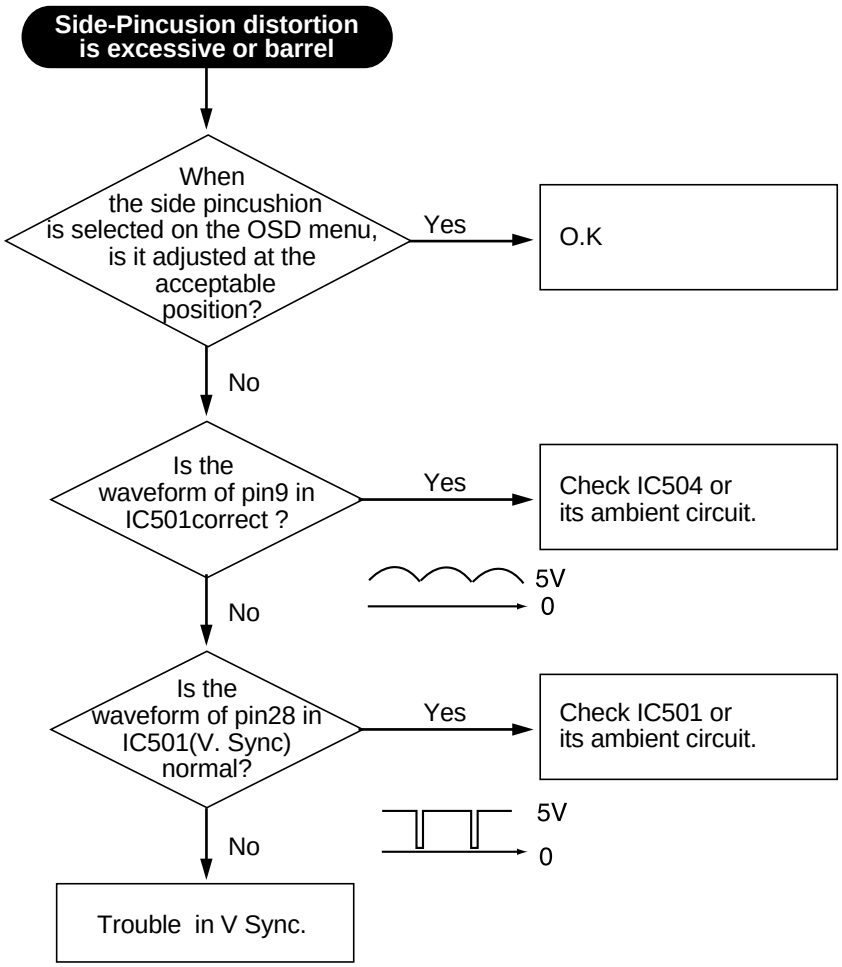
9-2. Vertical Size



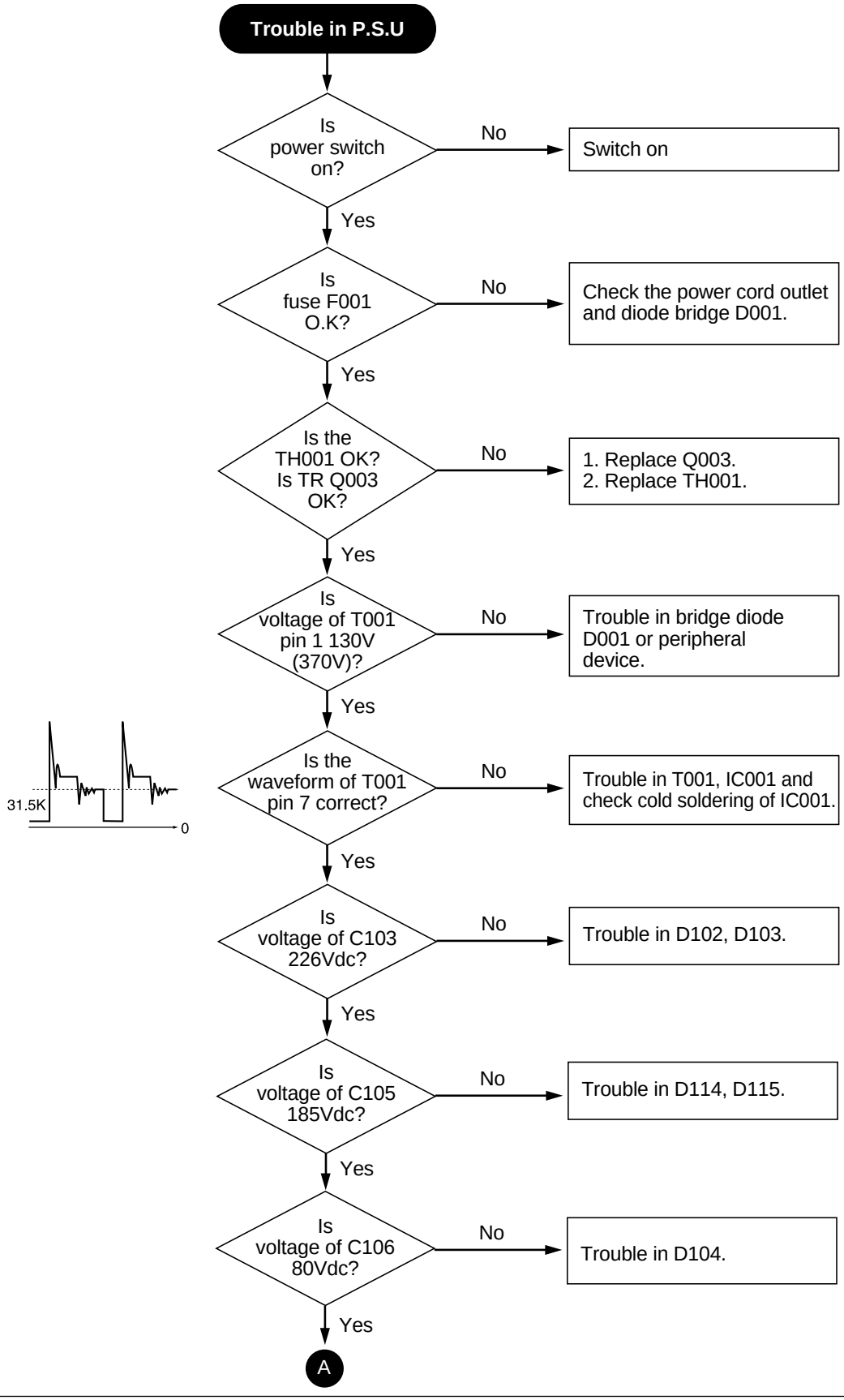
10. High Voltage Output Circuit

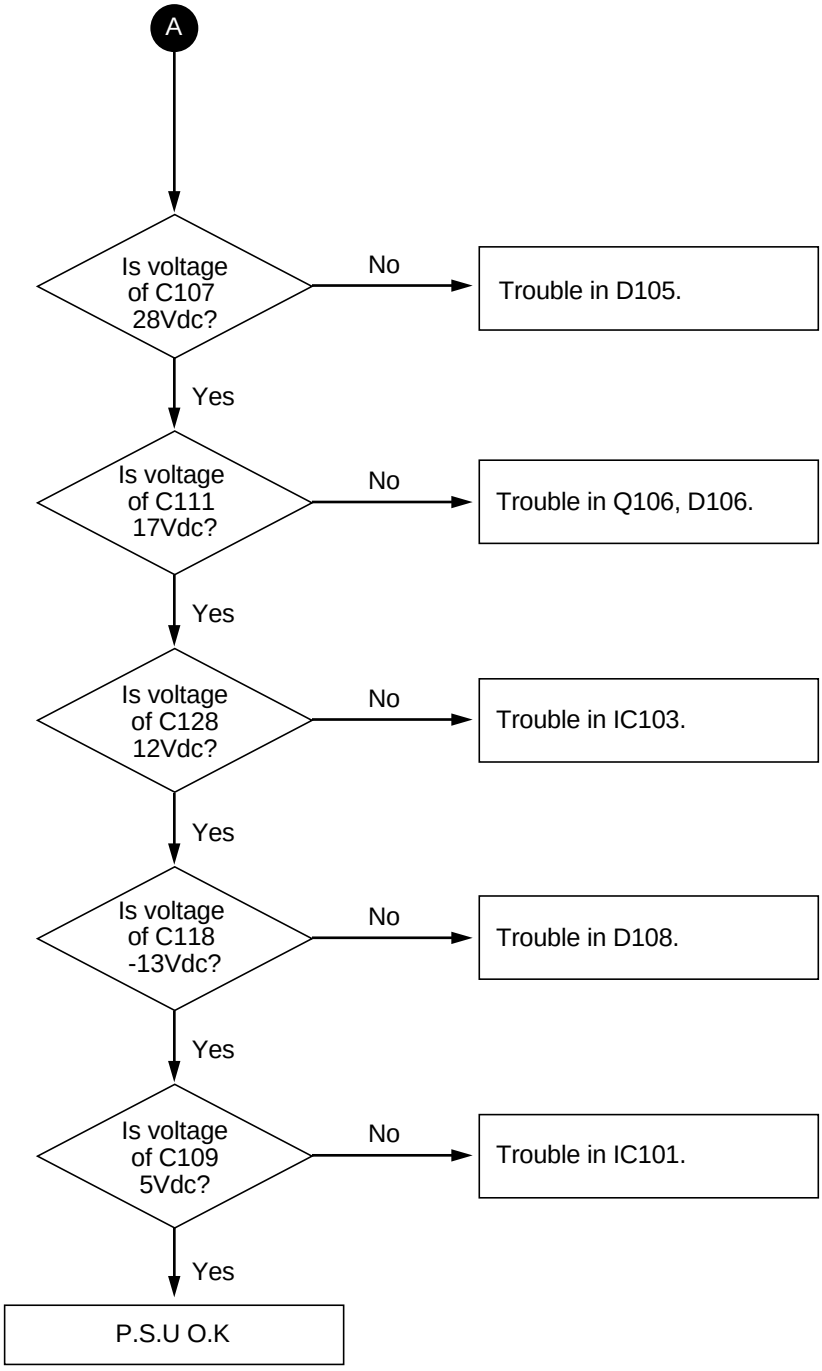


11. Side-Pincushion Circuit

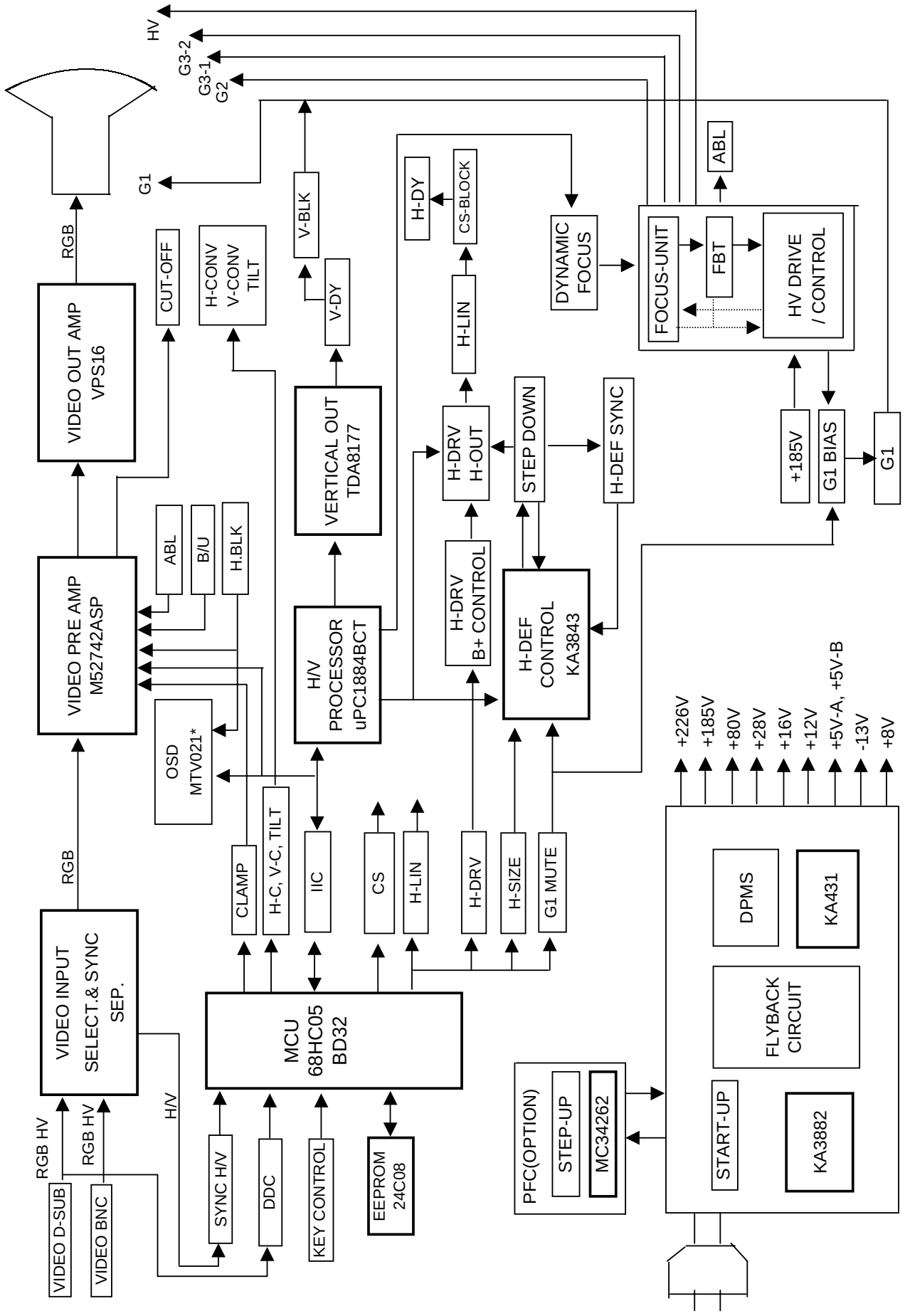


12. Power Supply Unit (P.S.U)



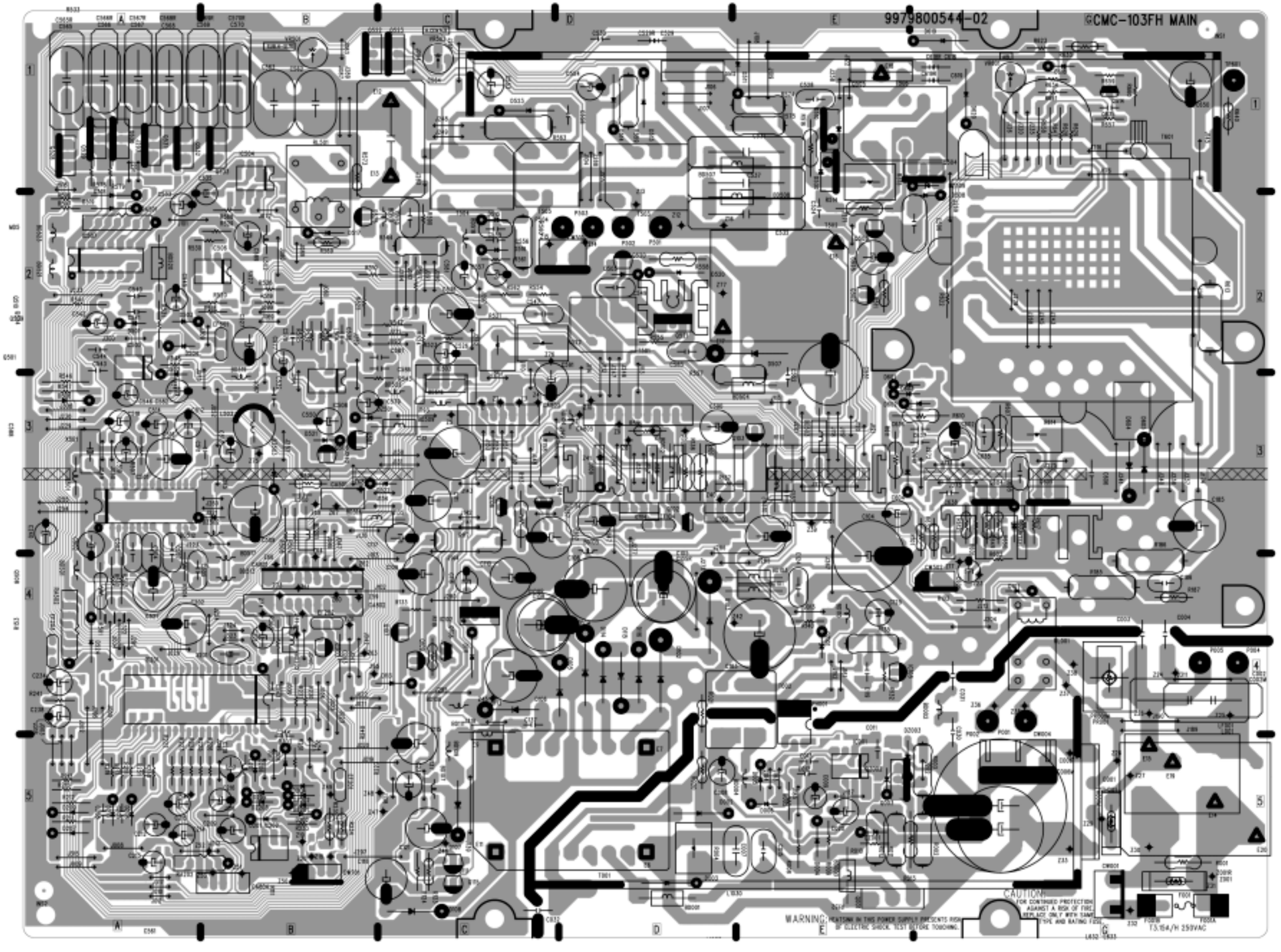

A
Is voltage of C107 28Vdc?
No
Trouble in D105.
Yes
Is voltage of C111 17Vdc?
No
Trouble in Q106, D106.
Yes
Is voltage of C128 12Vdc?
No
Trouble in IC103.
Yes
Is voltage of C118 -13Vdc?
No
Trouble in D108.
Yes
Is voltage of C109 5Vdc?
No
Trouble in IC101.
Yes
P.S.U O.K

BLOCK DIAGRAM

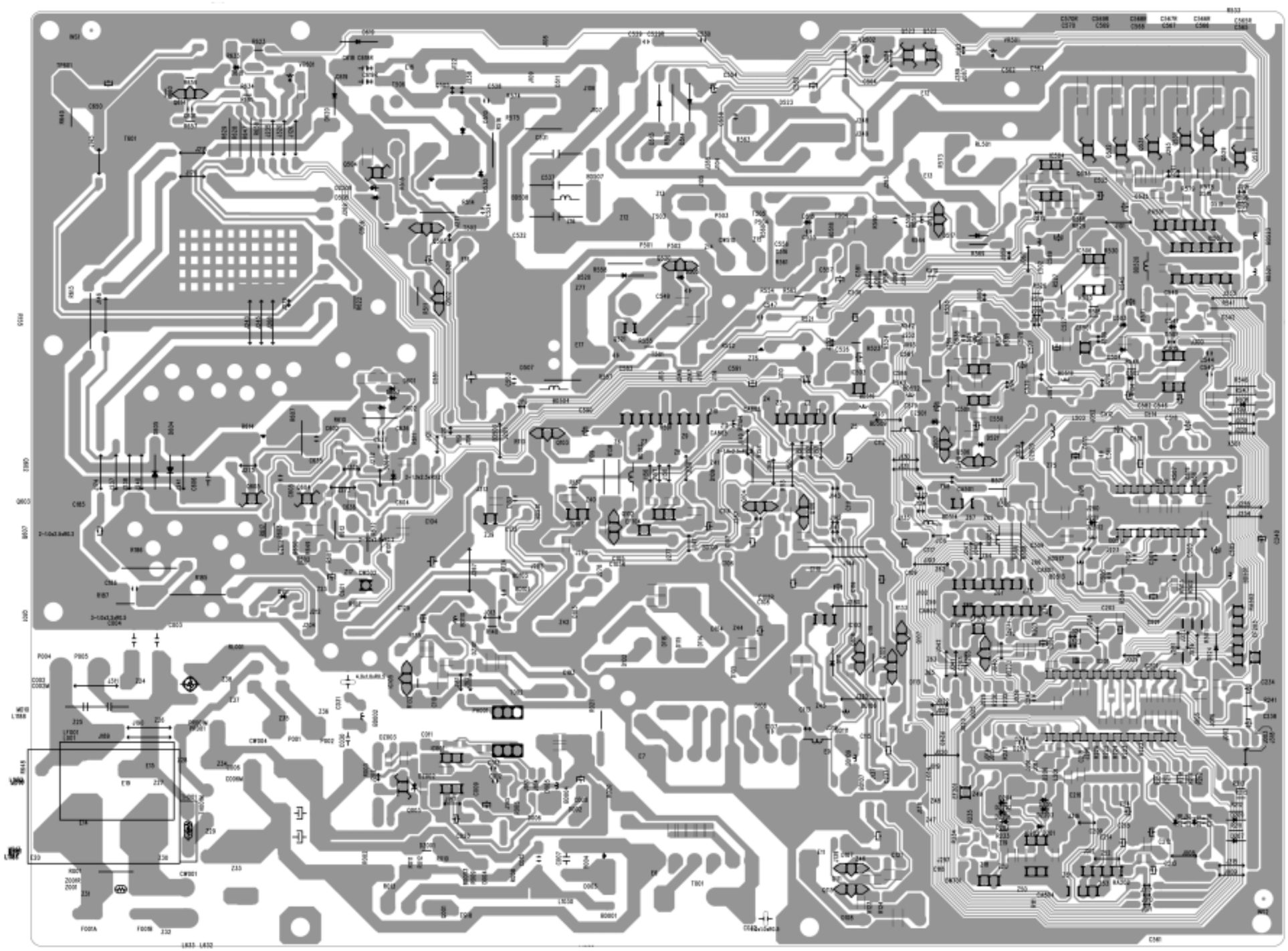


PCB LAYOUT

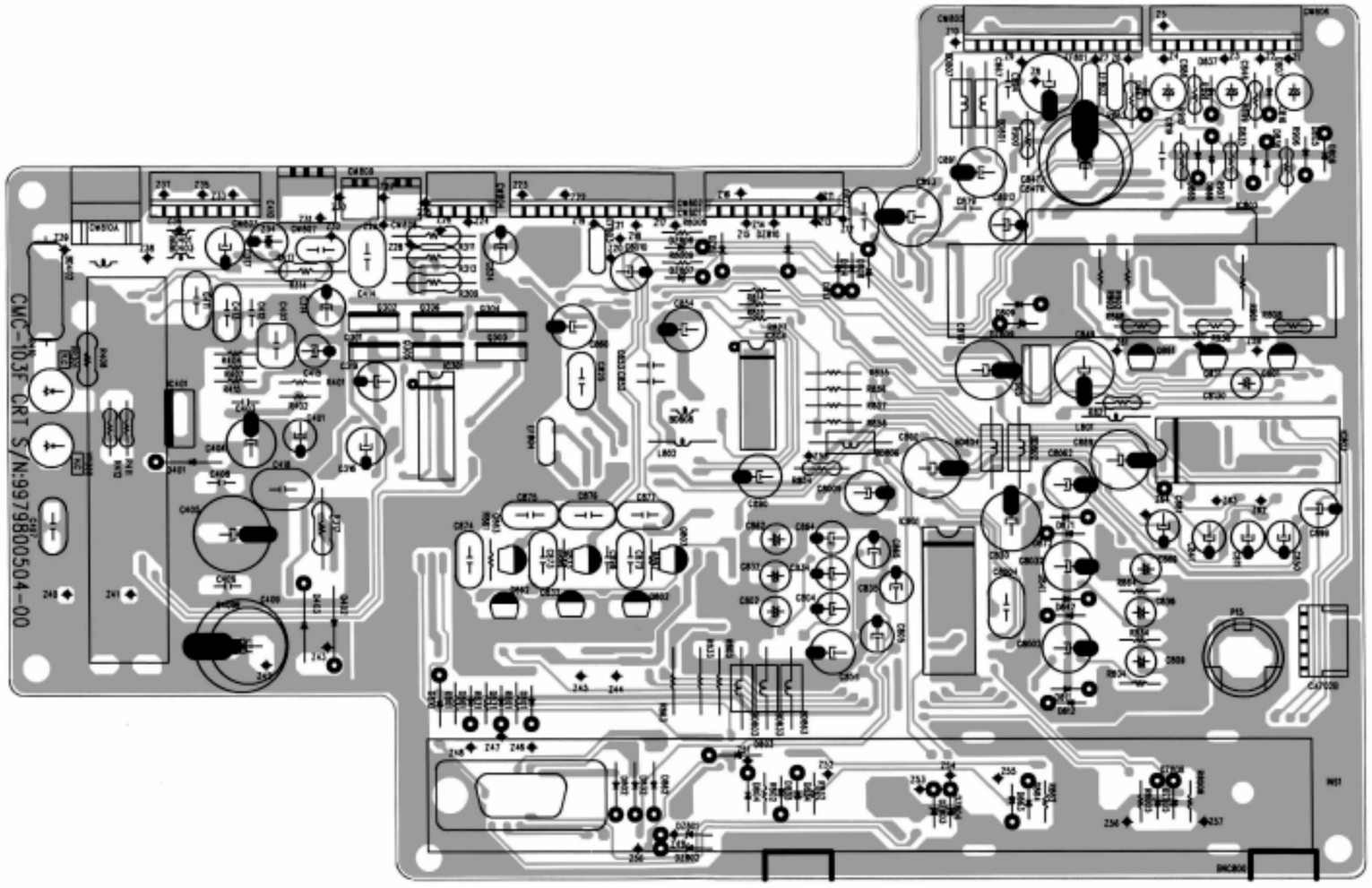
Main PCB Component Side



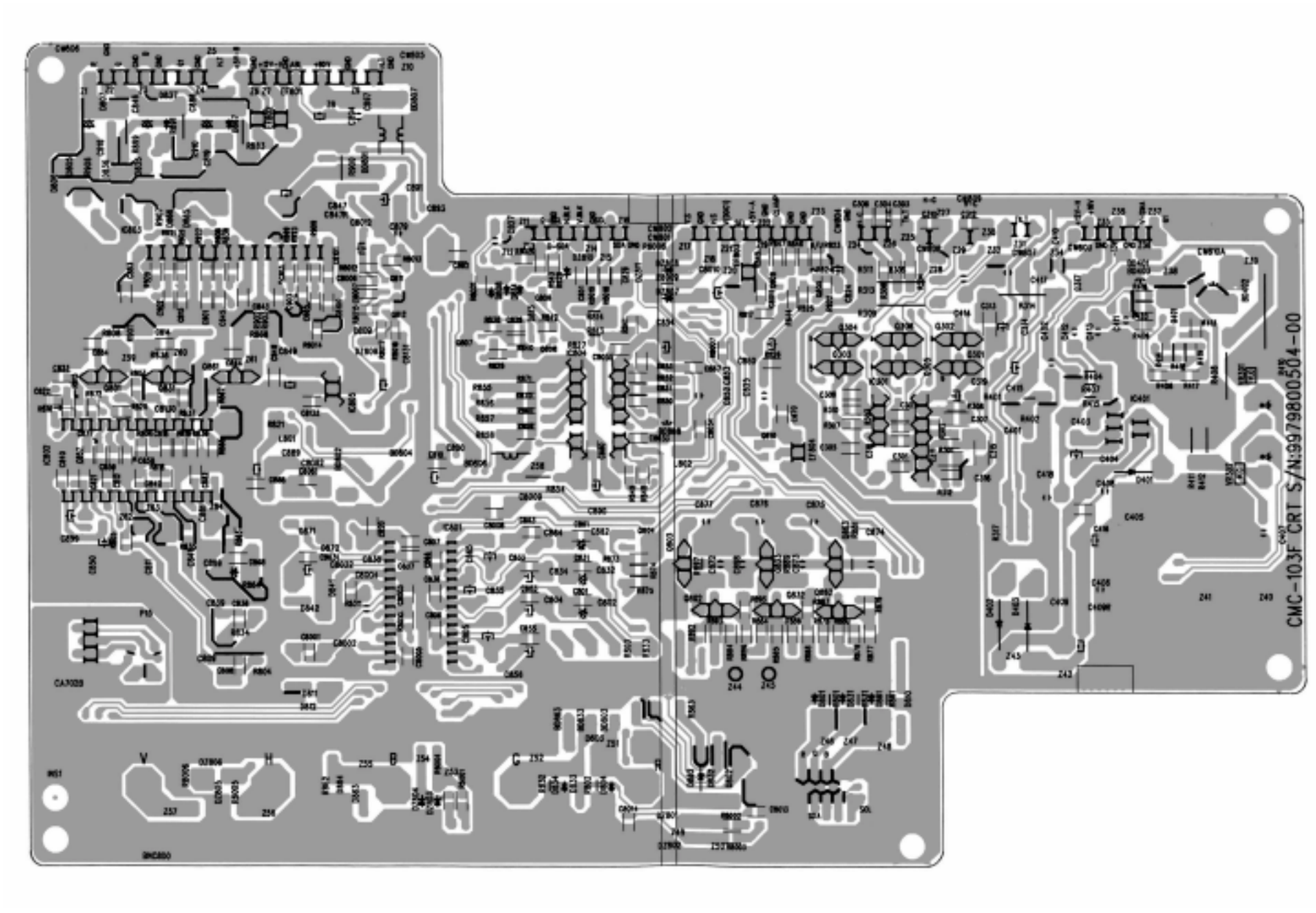
Main PCB Solder Side



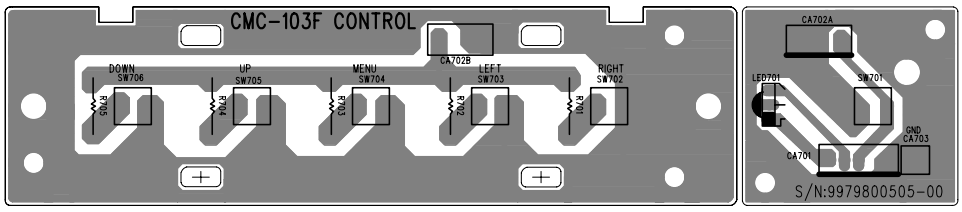
Video PCB Component Side



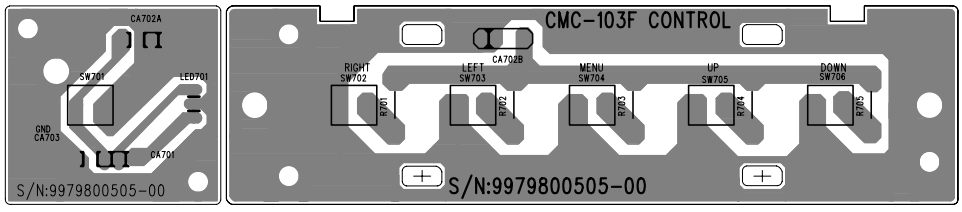
Video PCB Solder Side



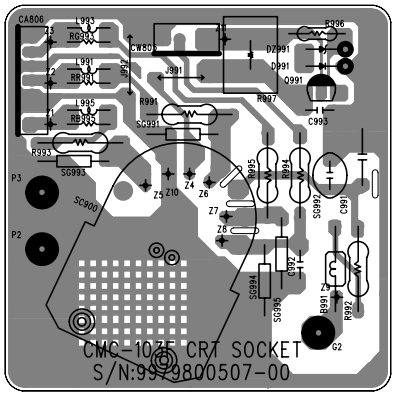
Control PCB Component Side



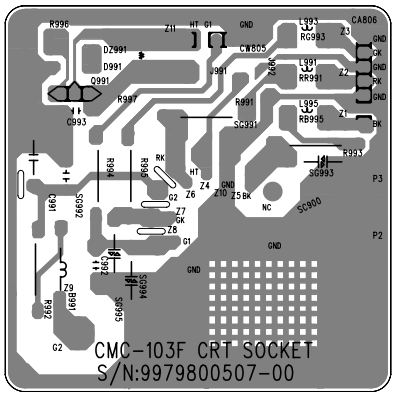
Control PCB Solder Side



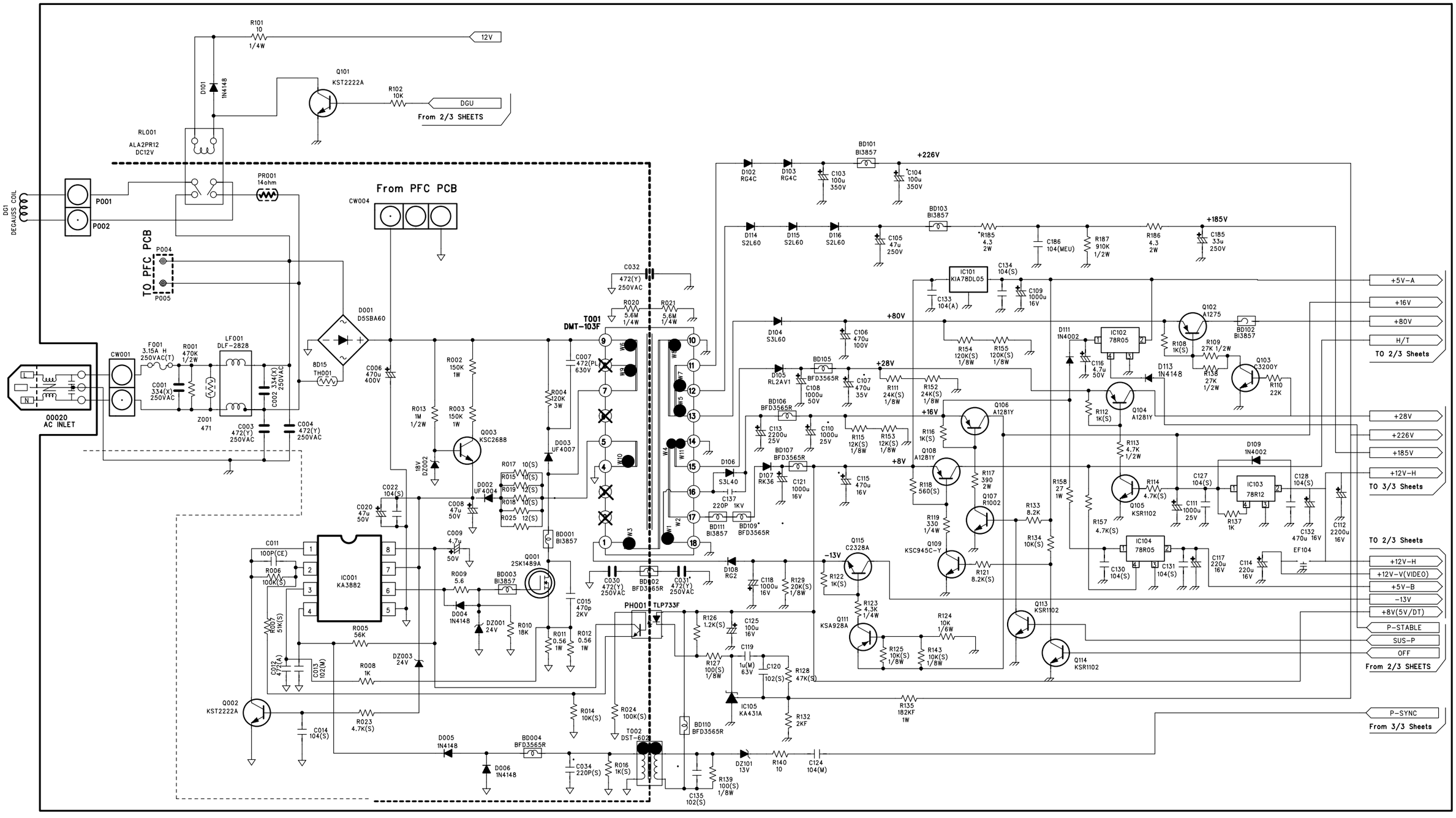
Socket PCB Component Side



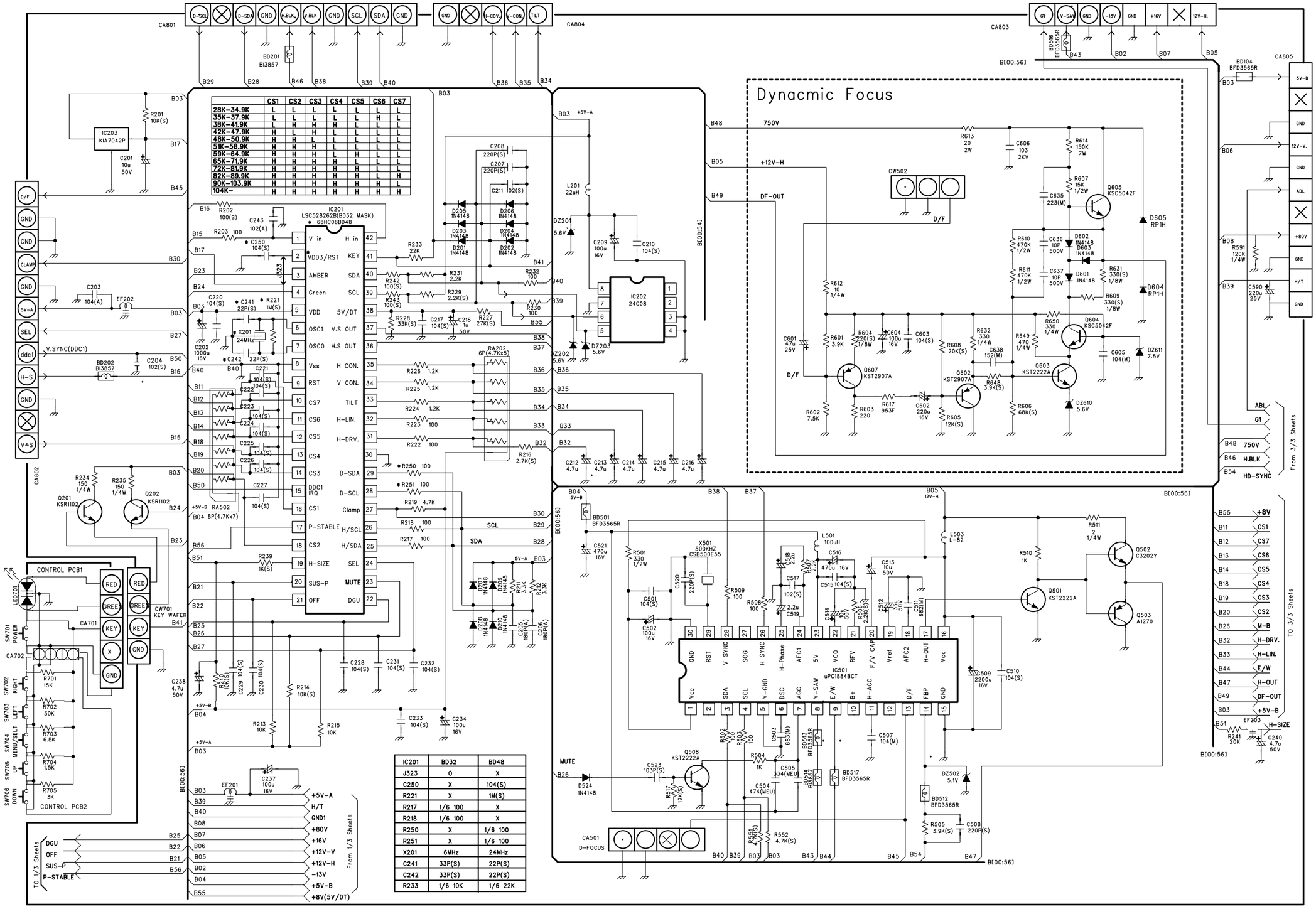
Socket PCB Solder Side



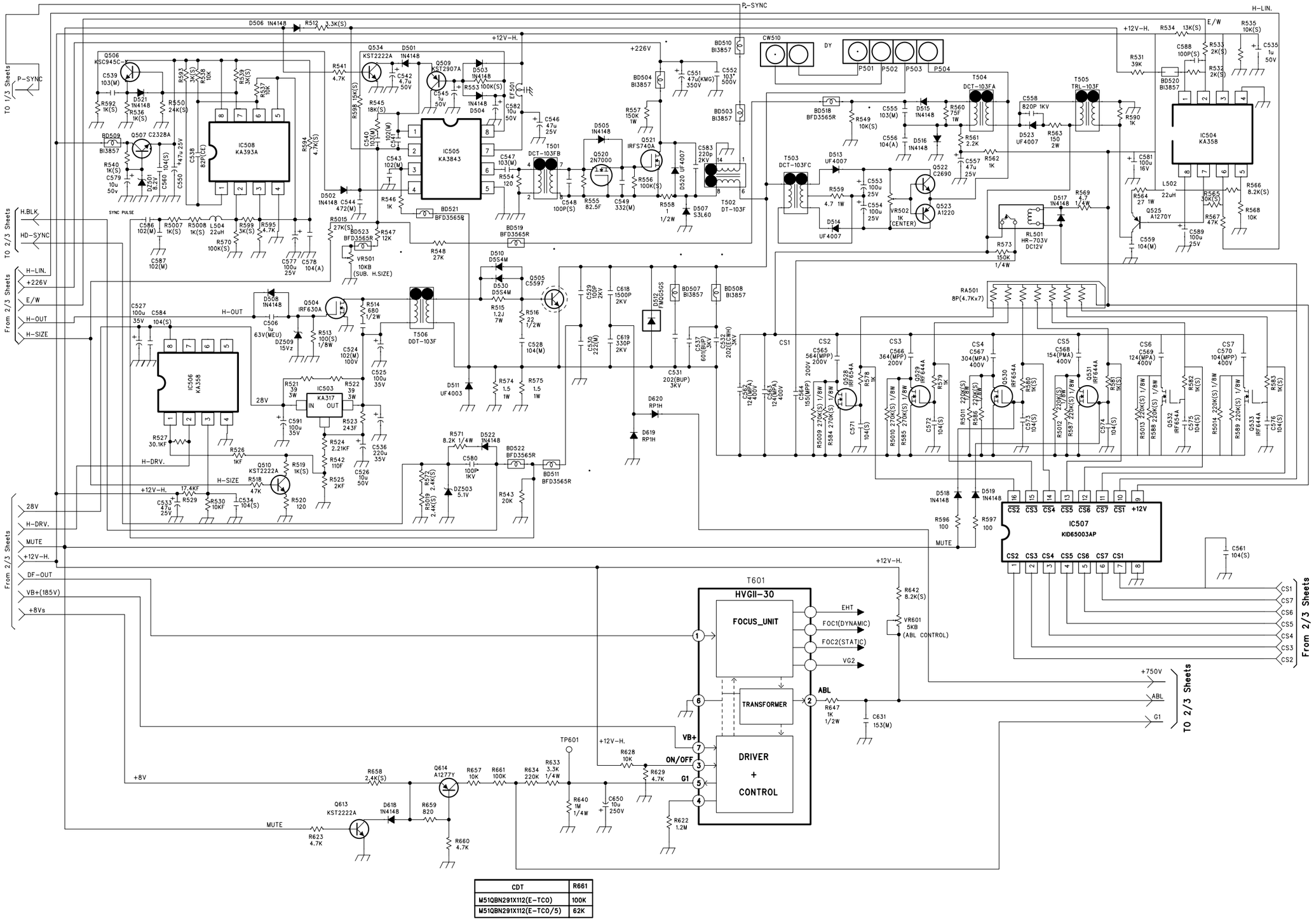
Power & PFC Circuit



MCU OSD Key Deflection Dynamic Circuit

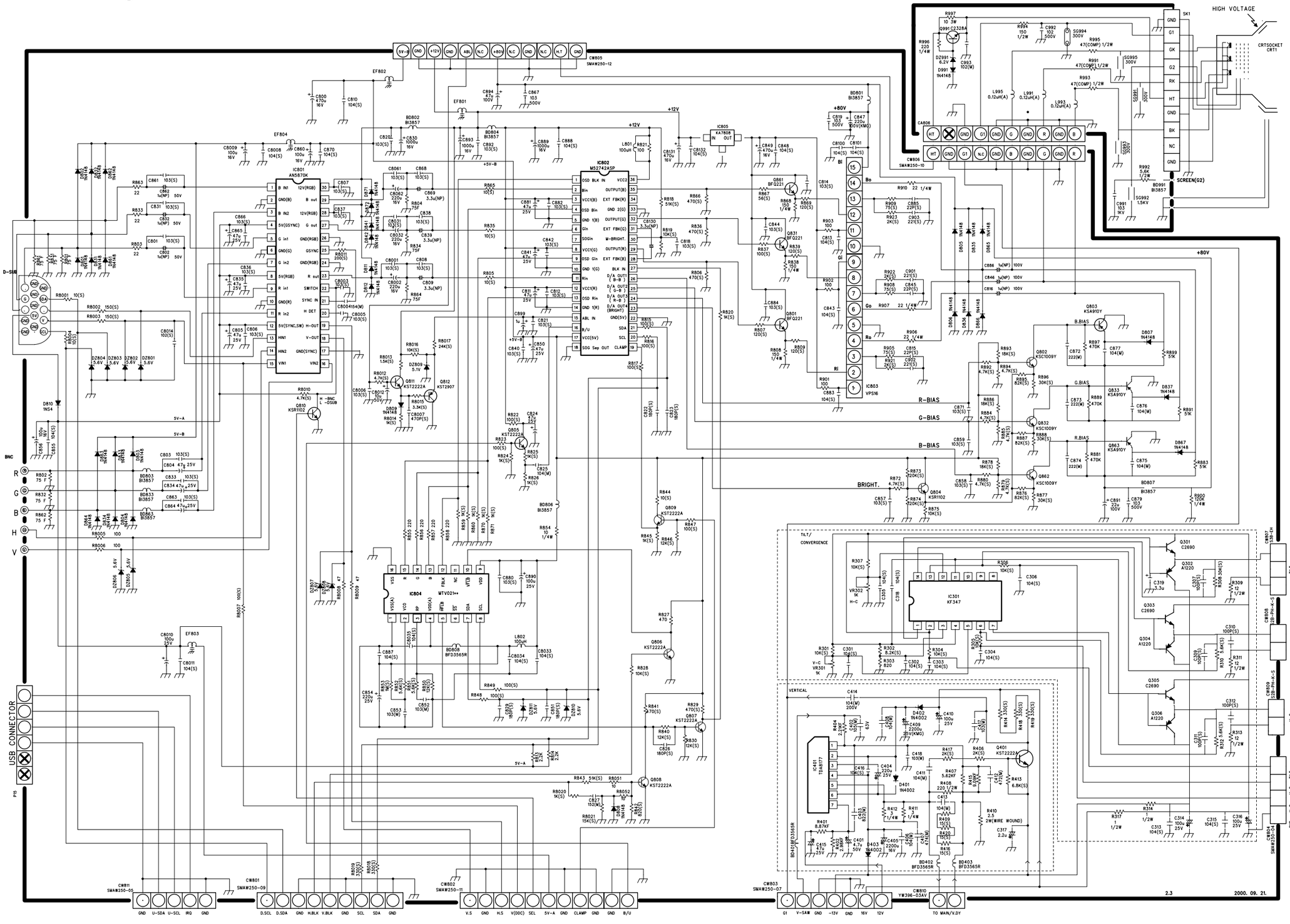


Deflection & H/V Circuit

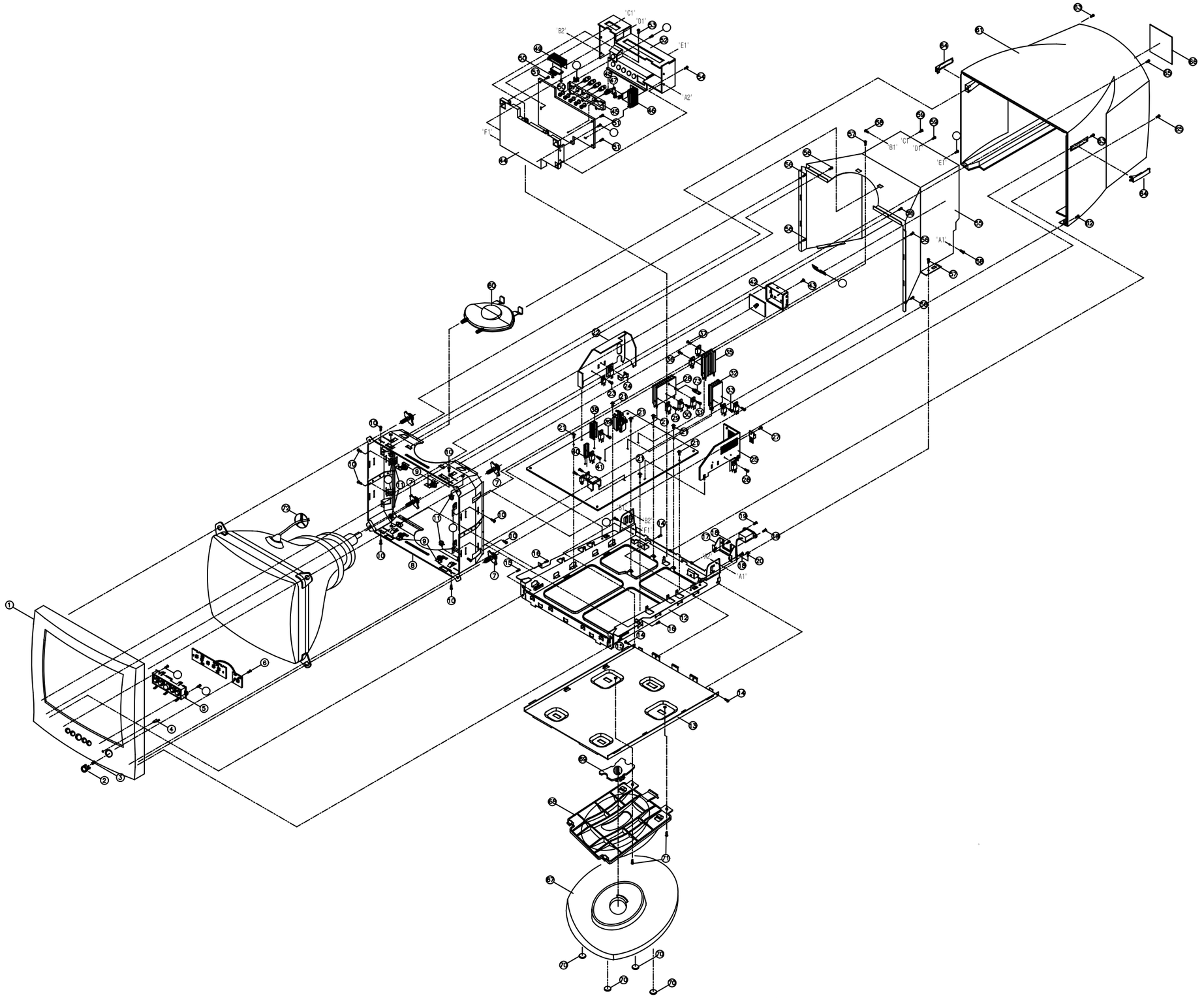


CDT	R661
M51QBN291X112(E-TCO)	100K
M51QBN291X112(E-TCO/5)	62K

Video & Vertical & Convergence & Tilt Circuit



EXPLODED VIEW & MECHANICAL PARTS LIST



NO	PART CODE	PART NAME	Q'TY	DESCRIPTION	REMARK
93					
92					
91					
90					
89					
88					
87					
86					
85					
84					
83					
82					
81					
80	USB OPTION				
79					
78					
77					
76	9976013400	SCREW SPECIAL	1	TT2 BIN 3*14 MFZN PWØ7	H/S 218+D110
75	9976013400	SCREW SPECIAL	1	TT2 BIN 3*14 MFZN PWØ7	H/S 218+D104
74	9977021800	HEAT SINK 218	1	AL(T=1.5)	
73	(97P4602100)	WIRE SADDLE	1	NYLON 66 (DAWS-3N)	
72	9976810600	ROCK WIRE	1	DARW-50	+FBT WIRE
71	7173401411	SCREW TAPTITE	2	TT2 BIN 4*14 MFZN	STAND AS+FRAME
70	9972711100	FOOT	4	RUBBER WHITE 14	
69	9972921900	FRICTION PAD	1	ABS+PC ALLOY GY-275A (94-HB)	
68	9972921800	SWIVEL TABLE	1	ABS GY-275A (94-HB)	
67	9972921700	STAND BASE	1	ABS GY-275A (94-HB)	
66	9975423400	LABEL RATING	1	P.E FILM(T=0.1*98*78)	
65	7173401411	SCREW TAPTITE	1	TT2 BIN 4*14 MFZN	C/REAR+FRAME
64	9972214100	COVER SCREW	2	HB-ABS GY-275A	
63	7173401411	SCREW TAPTITE	2	TT2 BIN 4*14 MFZN	C/REAR+FRAME CRT
62	7173401411	SCREW TAPTITE	2	TT2 BIN 4*14 MFZN	C/FRONT+C/REAR
61	9972116300	COVER REAR	1	HB-ABS GY-275A	
60	9972214700	COVER ANODE CAP	1	FR-ABS GY-275A (5V)	(OPTION)
59	9976013200	SCREW SPECIAL	2	TT2 BIN 3*10 MFZN PWØ7	SH MAIN+SH VIDEO AS
58	9976013200	SCREW SPECIAL	2	TT2 BIN 3*10 MFZN PWØ7	SH MAIN+SH VIDEO AS
57	7173300611	SCREW TAPTITE	2	TT2 BIN 3*6 MFZN	SH MAIN+FRAME AS
56	7173300611	SCREW TAPTITE	6	TT2 BIN 3*6MFZN	SH MAIN+FRAME CRT AS
55	99772455A0	SH' MAIN AS'	1	SPTH-C (T=0.5)	
54	7173300811	SCREW TAPTITE	1	TT2 BIN 3*8 MFZN	H/S 285+SH COVER
53	7173300811	SCREW TAPTITE	1	TT2 BIN 3*8 MFZN	SH' COVER+SH' CASE
52	9977245200	SH' COVER VIDEO	1	AL(T=1.5)	
51	7173300811	SCREW TAPTITE	3	TT2 BIN 3*8 MFZN	VIDEO PCB+SH CASE
50	9976013400	SCREW SPECIAL	2	TT2 BIN 3*14 MFZN PWØ7	H/S 285+IC803
49	9977028551	HEAT SINK 285	1	AL (H=70)	
48	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 285+SPRING TR
47	9976712600	SPRING TR	1	SUS (T=1)	H/S 285+IC401
46	9977028552	HEAT SINK 285	1	AL (H=70)	
45	9977245400	SH' BNC JACK	1	SPTH-C (T=0.5)	
44	9977245300	SH' CASE VIDEO	1	E.G.I (T=0.8)	
43	9977713400	SPACER CARD	1	NYLON 66 (DASC-6N)	+SH' COVER
42	9977237000	SH' COVER	1	SPTH-C (T=0.3)	
41	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 269+IC503
40	9977026900	HEAT SINK 269	1	AL (H=40)	
39	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 283+Q521
38	9977028304	HEAT SINK 283	1	AL (H=45)	
37	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 254+D609
36	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 254+Q608
35	9977025403	HEAT SINK 254	1	AL (H=95)	
34	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 254+Q605
33	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 254+Q604
32	9977025402	HEAT SINK 254	1	AL (H=95)	
31	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 272+IC104
30	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 272+IC103
29	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 272+IC101
28	9977027252	HEAT SINK 272	1	AL (H=70)	
27	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 279+D001
26	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 279+Q001
25	9977027900	HEAT SINK 279	1	AL (T=2)	
24	9976712800	SPRING TR	1	SUS (T=0.5)	H/S 297+Q505
23	9976013200	SCREW SPECIAL	1	TT2 BIN 3*10 MFZN PWØ7	H/S 297+D512
22	9977029700	HEAT SINK 297	1	AL (T=2)	
21	9976013200	SCREW SPECIAL	7	TT2 BIN 3*10 MFZN PWØ7	MAIN PCB+FRAME AS
20	7S103B4081	SCREW SPECIAL	1	M/C BIN 4*8 MFZN TW	FRAME+GROUND
19	7175300811	SCREW TAPTITE	2	TT2 FLT 3*8 MFZN	BKT P/INLET+FRAME
18	7175300811	SCREW TAPTITE	2	TT2 FLT 3*8 MFZN	BKT+RECEPTACLE
17	9973922400	BKT POWER INLET	1	E.G.I (T=1)	
16	7173401011	SCREW TAPTITE	2	TT2 BIN 4*10MFZN	
15	7173401411	SCREW TAPTITE	2	TT2 BIN 4*14 MFZN	
14	7173300811	SCREW TAPTITE	3	TT2 BIN 3*8 MFZN	FRAME A+B
13	9974115900	FRAME B	1	E.G.I (T=1)	
12	9974115800	FRAME A	1	E.G.I (T=1)	
11	9973516100	HOLDER D-COIL	4	DH-140	F/CRT+D/COIL
10	7173300611	SCREW TAPTITE	1	TT2 BIN 3*6 MFZN	F/CRT+F/GROUND
9	9977916300	FINGER GROUND	8	PBSP (T=0.25)	
8	99741157A0	FRAME CRT AS'	1	E.G.I (T=1)	
7	9976011800	SCREW SPECIAL	4	TT2 HEX 5*25 MFZN SPW	
6	7173301011	SCREW TAPTITE	1	TT2 BIN 3*10 MFZN	FRONT+PWR/PCB
5	9974822400	BUTTON TACT	1	HB-ABS GY-275A	
4	9977917700	LENS LED	1	ACRYL (CLEAR)	
3	9976712500	SPRING	1	SUS (Ø=0.5)	
2	9974822000	BUTTON TACT POWER	1	HB-ABS GY-275A	
1	9972019700	COVER FRONT	1	HB-ABS GY-275A	

INFORMATION OF PART DESCRIPTION

Important Safety Notice

Components identified with the International Symbol have special characteristics important for safety. When replacing any components, use only manufacturer's specified parts.

Abbreviation of Description

RESISTOR Description

Tolerance	
F	± 1%
J	± 5%
K	± 10%
M	± 20%
G	± 2%

Example:

Fig & Index	Part No	Description
R101	Resistors	
	RD-4Z820J	Cabron: 82J

CAPACITOR Description

Tolerance	
C	± 0.25pF
D	± 0.5%
F	± 1pF
J	± 5%
K	± 10%
P	± 100% ~ 0%
Z	± 80% ~ –

Example:

Fig & Index	Part No	Description
	Capacitors	
C102	CCXF1H104Z	Ceramic 50V Z
C402	CCXB1H331K	Ceramic 50V K
C105	CXSL1H270J	Ceramic 50V J

ELECTRICAL PARTS LIST

The components identified by mark ⚠ have special characteristics important for safety and x-ray radiation.
These should be replaced only with the types specified in the parts list.

LOC	PART-CODE	PART-NAME	PART-DESC
00020	9979500017	RECEPTACLE	03GEEG3B-SL/FILTER EMI
⚠ 00020	W3475N731-	CORD POWER	3 H05VV-F 3X0.75 1.8 IV
00030	9970800018	CABLE SIGNAL AS	15P+2C/DDC=1.5M(IVY)
00080	9970710178	CONN AS	0.12*6*16+35072-9712=130
00090	9970710233	CONN AS	HOLDER+1015#18+SOLDER=100
00100	9970K00016	CORE FERRITE	OP-18(B)
BD001	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD002	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD003	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD004	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD101	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD102	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD103	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD104	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD105	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD106	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD107	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD109	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD110	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD111	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD201	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD202	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD401	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD402	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD403	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD501	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD503	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD504	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD507	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD508	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD509	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD510	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD511	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD512	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD513	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD514	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD516	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD517	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD518	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD519	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD520	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD521	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD522	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD523	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD801	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD802	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD803	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD804	5PB13857--	COIL BEAD	BI3857(AXIAL)

LOC	PART-CODE	PART-NAME	PART-DESC
BD806	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD807	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD808	5MBFD3565R	COIL BEAD	BFD 3565 R2
BD833	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD863	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD991	5PB13857--	COIL BEAD	BI3857(AXIAL)
BNC01	9976300033	CONN BNC	BNC 12.5*28.3
BNC02	9976300033	CONN BNC	BNC 12.5*28.3
BNC03	9976300033	CONN BNC	BNC 12.5*28.3
BNC04	9976300033	CONN BNC	BNC 12.5*28.3
BNC05	9976300033	CONN BNC	BNC 12.5*28.3
⚠ C002	CL1GB3334M	C LINE ACROSS	U/C/V/S/N/D/E/SV 250V
⚠ C003	CH1FDF472M	C CERA AC	2.5KV 4700PF M AC250V
⚠ C004	CH1FDF472M	C CERA AC	2.5KV 4700PF M AC250V
⚠ C006	CEYP2G471D	C ELECTRO	KMH 400V 470MF 35*50
C007	CMXE2J472J	C MYLAR	PL 630V 4700PF J
C008	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C009	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C011	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)
C012	CMXM2A472J	C MYLAR	100V 4700PF J (TP)
C013	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C014	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C015	CCXB3A471K	C CERA	1KV B 470PF K (T)
C020	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C022	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
⚠ C030	CH1FDF472M	C CERA AC	2.5KV 4700PF M AC250V
⚠ C031	CH1FDF472M	C CERA AC	2.5KV 4700PF M AC250V
⚠ C032	CH1FDF472M	C CERA AC	2.5KV 4700PF M AC250V
C034	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C103	CEXF2V101C	C ELECTRO	350V RUS 100MF(18*40)
C104	CEXF2V101C	C ELECTRO	350V RUS 100MF(18*40)
C105	CEXF2E470C	C ELECTRO	250V RUS 47MF (16X25) TP
C106	CEXF2A471D	C ELECTRO	100V RMU 470MF(16*25) TP
C107	CEXF1V471C	C ELECTRO	35V RUS 470MF (10X20) TP
C108	CEXF1H102D	C ELECTRO	50V RMU 1000MF(12.5*25)TP
C109	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
C110	CEXF1E102D	C ELECTRO	25V RMU 1000MF (10*20)
C111	CEXF1E102D	C ELECTRO	25V RMU 1000MF (10*20)
C112	CEXF1C222C	C ELECTRO	16V RUS 2200MF (13X25) TP
C113	CEXF1E222D	C ELECTRO	25V RMU 2200MF(12.5*25)TP
C114	CEXF1C221C	C ELECTRO	16V RUS 220MF (8X11.5) TP
C115	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
C116	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C117	CEXF1C221C	C ELECTRO	16V RUS 220MF (8X11.5) TP
C118	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
C119	CMXL1J105J	C MYLAR	MEU 63V 1MF J
C120	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
C121	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP

LOC	PART-CODE	PART-NAME	PART-DESC
C124	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C125	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C127	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C128	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C130	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C131	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C132	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
C133	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z
C134	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C135	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
C137	CCXB3A221K	C CERA	1KV B 220PF K (TAPPING)
C185	CEXF2E330C	C ELECTRO	250V RUS 33MF (13*25)
C186	CMXL2E104J	C MYLAR	MEU 250V 0.1MF J
C201	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C202	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
C203	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z
C204	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
C205	CCZB1H181K	C CERA	50V B 180PF K AXIAL
C206	CCZB1H181K	C CERA	50V B 180PF K AXIAL
C207	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C208	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C209	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C210	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C211	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
C212	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C213	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C214	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C215	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C216	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C217	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C218	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C220	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C221	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C222	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C223	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C224	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C225	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C226	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C227	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C228	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C229	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C230	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C231	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C232	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C233	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C234	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C237	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C238	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C240	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C241	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C242	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C243	CCZB1H102K	C CERA	50V B 1000PF K

LOC	PART-CODE	PART-NAME	PART-DESC
C250	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C301	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C302	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C303	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C304	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C305	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C306	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C307	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
C309	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
C310	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
C311	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
C312	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
C313	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C314	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C315	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C316	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C317	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C318	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C319	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP
C401	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C402	CMXL1J105J	C MYLAR	MEU 63V 1MF J
C403	CMXM2A822J	C MYLAR	100V 8200PF J (TP)
C404	CEXF1E221C	C ELECTRO	25V RUS 220MF (8X11.5) TP
C405	CEXF1C222C	C ELECTRO	16V RUS 2200MF (13X25) TP
C406	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C407	CMXL2A474J	C MYLAR	MEU 100V 0.47MF J
C408	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C409	CEXF1E222D	C ELECTRO	25V RMU 2200MF(12.5*25)TP
C410	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C411	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C412	CMXM2A472J	C MYLAR	100V 4700PF J (TP)
C413	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C414	CMXM2D104J	C MYLAR	200V 0.1MF J
C415	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C416	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C417	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C418	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C501	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C502	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C503	CMXM2A683J	C MYLAR	100V 0.068MF J (TP)
C504	CMXL2A474J	C MYLAR	MEU 100V 0.47MF J
C505	CMXL2A334J	C MYLAR	MEU 100V 0.33MF J
C506	CMXL1J105J	C MYLAR	MEU 63V 1MF J
C507	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C508	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C509	CEXF1C222C	C ELECTRO	16V RUS 2200MF (13X25) TP
C510	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C511	CMXM2A682J	C MYLAR	100V 6800PF J (TP)
C512	CEXF1H330C	C ELECTRO	50V RUS 33MF (6.3X11) TP
C513	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C514	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C515	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012

LOC	PART-CODE	PART-NAME	PART-DESC
C516	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
C517	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
C518	CEXE1H229C	C ELECTRO	50V RU 2.2MF (5X11) TP
C519	CEXE1H229C	C ELECTRO	50V RU 2.2MF (5X11) TP
C520	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C521	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
C523	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C524	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C525	CEXF1V101C	C ELECTRO	35V RUS 100MF (8X11.5) TP
C526	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C527	CEXF1V101C	C ELECTRO	35V RUS 100MF (8X11.5) TP
C528	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C529	CXSL3D101K	C CERA	2KV SL 100PF K(TP)
C530	CMXM2A222J	C MYLAR	100V 2200PF J (TP)
⚠ C531	CMYH3L202J	C MYLAR	3KV BUP 2000PF J BULK
⚠ C532	CMYH3L202J	C MYLAR	3KV BUP 2000PF J BULK
C533	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C534	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C535	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C536	CEXF1V221C	C ELECTRO	35V RUS 220MF (10X12.5)TP
⚠ C537	CMYH3L601J	C MYLAR	3KV BUP 600PF J BULK
C538	CXCH1H820J	C CERA	50V CH 82PF J (TAPPING)
C539	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C540	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C541	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C542	CEXE1H479C	C ELECTRO	50V RU 4.7MF (5X11) TP
C543	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C544	CMXM2A472J	C MYLAR	100V 4700PF J (TP)
C545	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C546	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C547	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C548	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
C549	CMXM2A332J	C MYLAR	100V 3300PF J (TP)
C550	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C551	CEXF2V470D	C ELECTRO	350V RMU 47MF(16*25) TP
C552	CCXF2H103Z	C CERA	HIKF 500V 0.01MF Z
C553	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C554	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C555	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C556	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z
C557	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C558	CCXB3A821K	C CERA	1KV B 820PF K (TAPPING)
C559	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C560	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C561	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
⚠ C562	CMYA2G124J	C MYLAR	MPA 400V 0.12MF J BULK
⚠ C563	CMYA2G124J	C MYLAR	MPA 400V 0.12MF J BULK
C564	CMYF2D155J	C MYLAR	MPP 200V 1.5MF J BULK
C565	CMXF2D564J	C MYLAR	MPP 200V 0.56MF J
C566	CMXF2D364J	C MYLAR	200V MPP 0.36MF J (TP)
C567	CMYA2G304J	C MYLAR	MPA 400V 0.30MF J
C568	CMXA2G154J	C MYLAR	PMA 400V 0.15MF J

LOC	PART-CODE	PART-NAME	PART-DESC
C569	CMYA2G124J	C MYLAR	MPA 400V 0.12MF J BULK
C570	CMXF2G104J	C MYLAR	MPP 400V 0.1MF J
C571	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C572	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C573	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C574	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C575	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C576	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C577	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C578	CCZF1H104Z	C CERA	50V HIKF 0.1MF Z
C579	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C580	CCXB3A101K	C CERA	1KV B 100PF K
C581	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C582	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C583	CCXB3A221K	C CERA	1KV B 220PF K (TAPPING)
C584	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C586	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C587	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C588	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
C589	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C590	CEXF1E221C	C ELECTRO	25V RUS 220MF (8X11.5) TP
C591	CEXF1V101C	C ELECTRO	35V RUS 100MF (8X11.5) TP
C601	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C602	CEXF1C221C	C ELECTRO	16V RUS 220MF (8X11.5) TP
C603	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C604	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C605	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C606	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P
C618	CCXB3D152K	C CERA	HIKB 2KV 1500PF K
C619	CCXB3D331K	C CERA	2KV B 330PF K (TAPPING)
C631	CMXM2A153J	C MYLAR	100V 0.015MF J (TP)
C635	CMXM2A223J	C MYLAR	100V 0.022MF J TP
C636	CXSL2H100D	C CERA	500V SL 10PF D (TAPPING)
C637	CXSL2H100D	C CERA	500V SL 10PF D (TAPPING)
C638	CMXM2A182J	C MYLAR	100V 1800PF J (TP)
C650	CEXF2E100C	C ELECTRO	250V RUS 10MF (10*20) TP
C800	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
C8001	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8002	CEXF1C221C	C ELECTRO	16V RUS 220MF (8X11.5) TP
C8003	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8004	CMXM2A154J	C MYLAR	100V 0.15MF J (TP)
C8005	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8006	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8007	HCQK471JCA	C CHIP CERA	50V CH 470PF J 2012
C8008	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C8009	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C801	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8010	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C8011	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C8012	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C8014	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
C802	CEXD1H109F	C ELECTRO	50V RND 1MF (5X11) TP

LOC	PART-CODE	PART-NAME	PART-DESC
C803	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8031	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8032	CEXF1C221C	C ELECTRO	16V RUS 220MF (8X11.5) TP
C8033	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C8034	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C8035	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C804	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C805	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C806	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8061	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C8062	CEXF1C221C	C ELECTRO	16V RUS 220MF (8X11.5) TP
C807	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C808	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C809	CEXD1H339F	C ELECTRO	50V RND 3.3MF (5X11) TP
C810	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C8100	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C8101	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C811	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C812	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C813	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C8130	CEXD1H339F	C ELECTRO	50V RND 3.3MF (5X11) TP
C8131	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
C8132	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C814	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C815	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C816	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP
C818	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C819	CCXF2H103Z	C CERA	HIKF 500V 0.01MF Z
C820	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C821	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C822	HCQK181JCA	C CHIP CERA	50V CH 180PF J 2012
C823	HCQK181JCA	C CHIP CERA	50V CH 180PF J 2012
C824	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C825	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C826	HCQK181JCA	C CHIP CERA	50V CH 180PF J 2012
C827	CMXM2A152J	C MYLAR	100V 1500PF J (TP)
C829	HCQK181JCA	C CHIP CERA	50V CH 180PF J 2012
C830	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
C831	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C832	CEXD1H109F	C ELECTRO	50V RND 1MF (5X11) TP
C833	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C834	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C835	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C836	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C837	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C838	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C839	CEXD1H339F	C ELECTRO	50V RND 3.3MF (5X11) TP
C840	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C841	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C842	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C843	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C844	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012

LOC	PART-CODE	PART-NAME	PART-DESC
C845	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C846	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP
C847	CEXF2A221D	C ELECTRO	100V RMU 220MF(12.5*25)TP
C848	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C849	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
C850	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C851	HCQK181JCA	C CHIP CERA	50V CH 180PF J 2012
C852	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C853	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C854	CEXF1E221C	C ELECTRO	25V RUS 220MF (8X11.5) TP
C855	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C856	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C857	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C858	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C859	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C860	CEXF1C101C	C ELECTRO	16V RUS 100MF (6.3X11) TP
C861	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C862	CEXD1H109F	C ELECTRO	50V RND 1MF (5X11) TP
C863	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C864	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C865	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C866	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C867	CCXF2H103Z	C CERA	HIKF 500V 0.01MF Z
C868	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C869	CEXD1H339F	C ELECTRO	50V RND 3.3MF (5X11) TP
C870	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C871	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C872	CMXM2A222J	C MYLAR	100V 2200PF J (TP)
C873	CMXM2A222J	C MYLAR	100V 2200PF J (TP)
C874	CMXM2A222J	C MYLAR	100V 2200PF J (TP)
C875	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C876	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C877	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C879	CCXF2H103Z	C CERA	HIKF 500V 0.01MF Z
C880	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C881	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C882	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C883	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C884	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C885	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C886	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP
C887	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C888	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
C889	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
C890	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C891	CEXF2A220C	C ELECTRO	100V RUS 22MF (8*11.5) TP
C892	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
C893	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
C894	CEXF2A470C	C ELECTRO	100V RUS 47MF (10X16) TP
C899	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C901	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C902	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
C903	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C991	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P
C992	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)
C993	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
CA501	9970740041	CONN AS	5264+51088+1354#28=200
CA701	9970740042	CONN AS	SMH250+35022+1007#24=250
CA702	9970740039	CONN AS	35022-4*2+1007#24=230
CA703	9970710220	CONN AS	35072+35404+1015#22=280
CA801	9970790106	CONN AS	SMH250+51088+2547#26=350
CA802	99707B0010	CONN AS	SMH250+1354+2547+1007=350
CA803	9970770025	CONN AS	SMH250+51088+2547#26=320
CA804	9970740040	CONN AS	SMH250+51088+1007#24=380
CA805	99707B0009	CONN AS	SMH250+51088+CORE=270
CA806	99707A0021	CONN AS	SMH+51088+US2990=130/150
CA810	9970730070	CONN AS	YH396-03V*2+1007#18=350
CT001	9970710197	CRT GND AS	0.12*5*24+BL102NG=830
CT002	9979621005	CDT	M51QBN291X112
CW001	9979220001	CONN WAFER	35328-02
CW502	9979220004	CONN WAFER	SMW250-03
CW510	9979200203	CONN WAFER	YW396-03AV
CW701	9979220005	CONN WAFER	SMW250-04
CW801	9979220024	CONN WAFER	SMAW250-09 (ANGLE)
CW802	9979220026	CONN WAFER	SMAW250-11 (ANGLE)
CW803	9979220022	CONN WAFER	SMAW250-07 (ANGLE)
CW804	9979220019	CONN WAFER	SMAW250-04 (ANGLE)
CW805	9979220027	CONN WAFER	SMAW250-12 (ANGLE)
CW806	9979220025	CONN WAFER	SMAW250-10 (ANGLE)
CW807	9979220078	CONN WAFER	S3B-EH AG
CW808	9979220079	CONN WAFER	S2B-PH-K AG
CW809	9979220079	CONN WAFER	S2B-PH-K AG
CW810	9979200199	CONN WAFER	YAW396-03V
⚠ D001A	DD5SBA60--	DIODE BRIDGE	D5SBA60
D002	DUF4004---	DIODE	UF4004
D003	DUF4007---	DIODE	UF4007
D004	DZN4148---	DIODE	1N4148 AUTO 52MM
D005	DZN4148---	DIODE	1N4148 AUTO 52MM
D006	DZN4148---	DIODE	1N4148 AUTO 52MM
D101	DZN4148---	DIODE	1N4148 AUTO 52MM
D102	DRG4C-----	DIODE	RG4C LF-L1
D103	DRG4C-----	DIODE	RG4C LF-L1
D104	DS3L60----	DIODE	S3L60
D105	DRL2AV1---	DIODE	RL2AV1
D106	DS3L40----	DIODE	S3L40 400V 3.0A
D107	DRK36-----	DIODE	RK36
D108	DRG2------	DIODE	RG2 (VERY HIGH SPEED)
D109	D1N4002A--	DIODE	1N4002
D111	D1N4002A--	DIODE	1N4002
D113	DZN4148---	DIODE	1N4148 AUTO 52MM
D114	DS2L60---R	DIODE	S2L60
D115	DS2L60---R	DIODE	S2L60
D116	DS2L60---R	DIODE	S2L60
D201	DZN4148---	DIODE	1N4148 AUTO 52MM

LOC	PART-CODE	PART-NAME	PART-DESC
D202	DZN4148---	DIODE	1N4148 AUTO 52MM
D203	DZN4148---	DIODE	1N4148 AUTO 52MM
D204	DZN4148---	DIODE	1N4148 AUTO 52MM
D205	DZN4148---	DIODE	1N4148 AUTO 52MM
D206	DZN4148---	DIODE	1N4148 AUTO 52MM
D207	DZN4148---	DIODE	1N4148 AUTO 52MM
D208	DZN4148---	DIODE	1N4148 AUTO 52MM
D209	DZN4148---	DIODE	1N4148 AUTO 52MM
D210	DZN4148---	DIODE	1N4148 AUTO 52MM
D401	D1N4002A--	DIODE	1N4002
D402	D1N4002A--	DIODE	1N4002
D403	D1N4002A--	DIODE	1N4002
D501	DZN4148---	DIODE	1N4148 AUTO 52MM
D502	DZN4148---	DIODE	1N4148 AUTO 52MM
D503	DZN4148---	DIODE	1N4148 AUTO 52MM
D504	DZN4148---	DIODE	1N4148 AUTO 52MM
D505	DZN4148---	DIODE	1N4148 AUTO 52MM
D506	DZN4148---	DIODE	1N4148 AUTO 52MM
D507	DS3L60----	DIODE	S3L60
D508	DZN4148---	DIODE	1N4148 AUTO 52MM
D510	DD5S4M----	DIODE	D5S4M
D511	DUF4003---	DIODE	UF4003
⚠ D512A	DFMQG5GS--	DIODE DAMPER	FMQG5GS
D513	DUF4007---	DIODE	UF4007
D514	DUF4007---	DIODE	UF4007
D515	DZN4148---	DIODE	1N4148 AUTO 52MM
D516	DZN4148---	DIODE	1N4148 AUTO 52MM
D517	DZN4148---	DIODE	1N4148 AUTO 52MM
D518	DZN4148---	DIODE	1N4148 AUTO 52MM
D519	DZN4148---	DIODE	1N4148 AUTO 52MM
D520	DUF4007---	DIODE	UF4007
D521	DZN4148---	DIODE	1N4148 AUTO 52MM
D522	DZN4148---	DIODE	1N4148 AUTO 52MM
D523	DUF4007---	DIODE	UF4007
D524	DZN4148---	DIODE	1N4148 AUTO 52MM
D530	DD5S4M----	DIODE	D5S4M
D601	DZN4148---	DIODE	1N4148 AUTO 52MM
D602	DZN4148---	DIODE	1N4148 AUTO 52MM
D603	DZN4148---	DIODE	1N4148 AUTO 52MM
D604	DRP1H-----	DIODE	RP1H
D605	DRP1H-----	DIODE	RP1H
D618	DZN4148---	DIODE	1N4148 AUTO 52MM
D619	DRP1H-----	DIODE	RP1H
D620	DRP1H-----	DIODE	RP1H
D801	DZN4148---	DIODE	1N4148 AUTO 52MM
D802	DZN4148---	DIODE	1N4148 AUTO 52MM
D803	DZN4148---	DIODE	1N4148 AUTO 52MM
D804	DZN4148---	DIODE	1N4148 AUTO 52MM
D805	DZN4148---	DIODE	1N4148 AUTO 52MM
D806	DZN4148---	DIODE	1N4148 AUTO 52MM
D807	DBAV20----	DIODE	BAV20
D808	DZN4148---	DIODE	1N4148 AUTO 52MM

LOC	PART-CODE	PART-NAME	PART-DESC
D809	DZN4148---	DIODE	1N4148 AUTO 52MM
D810	D1NS4-----	DIODE	1NS4
D811	DZN4148---	DIODE	1N4148 AUTO 52MM
D812	DZN4148---	DIODE	1N4148 AUTO 52MM
D813	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J
D814	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J
D831	DZN4148---	DIODE	1N4148 AUTO 52MM
D832	DZN4148---	DIODE	1N4148 AUTO 52MM
D833	DZN4148---	DIODE	1N4148 AUTO 52MM
D834	DZN4148---	DIODE	1N4148 AUTO 52MM
D835	DZN4148---	DIODE	1N4148 AUTO 52MM
D836	DZN4148---	DIODE	1N4148 AUTO 52MM
D837	DBAV20----	DIODE	BAV20
D841	DZN4148---	DIODE	1N4148 AUTO 52MM
D842	DZN4148---	DIODE	1N4148 AUTO 52MM
D861	DZN4148---	DIODE	1N4148 AUTO 52MM
D862	DZN4148---	DIODE	1N4148 AUTO 52MM
D863	DZN4148---	DIODE	1N4148 AUTO 52MM
D864	DZN4148---	DIODE	1N4148 AUTO 52MM
D865	DZN4148---	DIODE	1N4148 AUTO 52MM
D866	DZN4148---	DIODE	1N4148 AUTO 52MM
D867	DBAV20----	DIODE	BAV20
D871	DZN4148---	DIODE	1N4148 AUTO 52MM
D872	DZN4148---	DIODE	1N4148 AUTO 52MM
D991	DZN4148---	DIODE	1N4148 AUTO 52MM
⚠ DP001	5MG0000063	COIL DEGAUSSING	DG-103F
DSUB	9979200169	D-SUB PCB TYPE 15P	15P DDC BLUE 11.6MM
DZ001	DDZ24BM---	DIODE ZENER	DZ24BM
DZ002	DUZ18BM---	DIODE ZENER	UZ-18BM
DZ003	DDZ24BM---	DIODE ZENER	DZ24BM
DZ101	DDZ13BM---	DIODE ZENER	DZ13BM
DZ201	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ202	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ203	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ501	DDZ8R2BM--	DIODE ZENER	DZ8.2BM
DZ502	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ503	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ509	DDZ15BM---	DIODE ZENER	DZ15BM
DZ610	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ611	DDZ7R5BM--	DIODE ZENER	DZ7.5BM
DZ801	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ802	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ803	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ804	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ805	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ806	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ807	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ808	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ809	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ810	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ811	DDZ5R6BM--	DIODE ZENER	DZ5.6BM
DZ991	DDZ6R2BM--	DIODE ZENER	DZ6.2BM

LOC	PART-CODE	PART-NAME	PART-DESC
EF104	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF201	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF202	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF203	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF501	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF801	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF802	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF803	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
EF804	5PF1FH104M	FILTER LC	CFI-06-F-1H-104M
⚠ F001	5F3CB3122L	FUSE CERA	SEMKO TL 3.15AH 250V MF51
I101A	1K1A78DL05	IC REGULATOR	KIA78DL05PI
I401A	1TDA8177--	IC VERTICAL	TDA8177
I503A	1KA317----	IC REGULATOR	KA317
I803A	1VPS16----	IC CRT DRIVE	VPS16
IC001	1KA3882---	IC PWM	1KA3882
IC102	1KA78R05--	IC REGULATOR	KA78R05
IC103	1KA78R12--	IC REGULATOR	KA78R12
IC104	1KA78R05--	IC REGULATOR	KA78R05
IC105	1KA431AZ--	IC REGULATOR	KA431AZ
IC201	1MC908BD48	IC MICOM	MC68HC908BD481B
IC202	124C08----	IC EEPROM	24C08
IC203	1K1A7042P-	IC SWITCH	KIA7042P
IC301	1KF347----	IC OPAMP	KF347
⚠ IC501	1UPC1884BC	IC H/V OSC	UPC1884BCT
IC504	1DBL358---	IC	DBL358 DUAL OP-AMP
IC505	1KA3843B--	IC	KA3843B
IC506	1DBL358---	IC	DBL358 DUAL OP-AMP
IC507	1K1D65003A	IC	KID65003AP
IC508	1KA393A---	IC	KA393A
IC801	1AN5870K--	IC S/W	AN5870K
IC802	1M52742ASP	IC VIDEO PRE-AMP	M52742ASP
IC804	1DW0SD06--	IC OSD	MTV021
IC805	1KA7808---	IC REGULATOR	KA7808
L201	5CPZ220K02	COIL PEAKING	22UH K (AXIAL 3.5MM)
L501	5CPZ101K03	COIL PEAKING	100UH K (AXIAL 7MM)
L502	5CPZ220K02	COIL PEAKING	22UH K (AXIAL 3.5MM)
L503	5MC0000003	COIL CHOKE	L-82
L504	5CPZ220K02	COIL PEAKING	22UH K (AXIAL 3.5MM)
L801	5CPZ101K03	COIL PEAKING	100UH K (AXIAL 7MM)
L802	5CPZ101K03	COIL PEAKING	100UH K (AXIAL 7MM)
L991	5CPZ128K02	COIL PEAKING	0.12UH K(AXIAL 3.5MM)
L993	5CPZ128K02	COIL PEAKING	0.12UH K(AXIAL 3.5MM)
L995	5CPZ128K02	COIL PEAKING	0.12UH K(AXIAL 3.5MM)
LE701	DSD50GYW--	LED	SD50GYW(GREEN/AMBER)
⚠ LF001	5PDLF2828-	FILTER LINE	DLF-2828
P2	4859242220	CONN WAFER	YFW800-02
⚠ PCB01	9979800504	PCB VIDEO	T=1.6*246*159
⚠ PCB01	9979800505	PCB CONTROL	T=1.6*168*35
⚠ PCB01	9979800507	PCB CRT	T=1.6*68*68
⚠ PCB01	9979800544	PCB MAIN	T=1.6*246*330
⚠ PH001	1TLP733F--	IC PHOTO COUPLER	TLP733F
⚠ PR001	DECPAC140M	POSISTOR	ECPAC140M290

LOC	PART-CODE	PART-NAME	PART-DESC
Q001	T2SK2676--	FET	2SK2676
Q002	TKST2222A-	TR CHIP	KST2222A
Q003	TKSC2688-Y	TR	KSC2688-Y
Q101	TKST2222A-	TR CHIP	KST2222A
Q104	TKTA1281Y-	TR	KTA1281Y
Q105	TKSR1102--	TR CHIP	KSR1102
Q106	TKTA1281Y-	TR	KTA1281Y
Q107	TZSR1002--	TR	KSR1002 (AUTO)
Q108	TKTA1281Y-	TR	KTA1281Y
Q109	TZSC945CY-	TR	KSC945C-Y (AUTO)
Q111	TKSA928AY-	TR	KSA928A-Y
Q113	TKSR1102--	TR CHIP	KSR1102
Q114	TKSR1102--	TR CHIP	KSR1102
Q115	TKSC2328A-	TR	KSC2328A
Q201	TKSR1102--	TR CHIP	KSR1102
Q202	TKSR1102--	TR CHIP	KSR1102
Q301	TKSC2690AY	TR	KSC2690AY
Q302	TKSA1220AY	TR	KSA1220AY
Q303	TKSC2690AY	TR	KSC2690AY
Q304	TKSA1220AY	TR	KSA1220AY
Q305	TKSC2690AY	TR	KSC2690AY
Q306	TKSA1220AY	TR	KSA1220AY
Q401	TKST2222A-	TR CHIP	KST2222A
Q501	TKST2222A-	TR CHIP	KST2222A
Q502	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q503	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q504	T1RF630A--	FET	IRF630A
⚠ Q505	T2SC5597--	TR H.OUT	2SC5597
Q506	TZSC945CY-	TR	KSC945C-Y (AUTO)
Q507	TKSC2328A-	TR	KSC2328A
Q508	TKST2222A-	TR CHIP	KST2222A
Q509	TKST2907--	TR CHIP	KST2907A
Q510	TKST2222A-	TR CHIP	KST2222A
Q520	T2N7000---	FET	2N7000
Q521A	T1RFS740A-	FET	IRFS740A
Q522	TKSC2690AY	TR	KSC2690AY
Q523	TKSA1220AY	TR	KSA1220AY
Q525	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q528	T1RF654A--	FET	IRF654A
Q529	T1RF644A--	FET	IRF644A
Q530	T1RF654A--	FET	IRF654A
Q531	T1RF644A--	FET	IRF644A
Q532	T1RF654A--	FET	IRF654A
Q533	T1RF644A--	FET	IRF644A
Q534	TKST2222A-	TR CHIP	KST2222A
Q602	TKST2907--	TR CHIP	KST2907A
Q603	TKST2222A-	TR CHIP	KST2222A
Q604A	TKSC5042F-	TR	KSC5042F
Q605	TKSC5042F-	TR	KSC5042F
Q607	TKST2907--	TR CHIP	KST2907A
Q613	TKST2222A-	TR CHIP	KST2222A
Q614	TKTA1277Y-	TR	KTA1277Y

LOC	PART-CODE	PART-NAME	PART-DESC
Q801	TBFQ221---	TR	BFQ221
Q802	TZSC1009Y-	TR	KSC1009-Y (AUTO)
Q803	TKSA910Y--	TR	KSA910Y
Q804	TKSR1102--	TR CHIP	KSR1102
Q805	TKST2222A-	TR CHIP	KST2222A
Q806	TKST2222A-	TR CHIP	KST2222A
Q807	TKST2222A-	TR CHIP	KST2222A
Q808	TKST2222A-	TR CHIP	KST2222A
Q809	TKST2222A-	TR CHIP	KST2222A
Q810	TKSR1102--	TR CHIP	KSR1102
Q811	TKST2222A-	TR CHIP	KST2222A
Q812	TKST2907--	TR CHIP	KST2907A
Q831	TBFQ221---	TR	BFQ221
Q832	TZSC1009Y-	TR	KSC1009-Y (AUTO)
Q833	TKSA910Y--	TR	KSA910Y
Q861	TBFQ221---	TR	BFQ221
Q862	TZSC1009Y-	TR	KSC1009-Y (AUTO)
Q863	TKSA910Y--	TR	KSA910Y
Q991	TKSC2328A-	TR	KSC2328A
⚠ R001	RD-2Z474J-	R CARBON FILM	1/2 470K OHM J
R002	RS01Z154J-	R M-OXIDE FILM	1W 150K OHM J(TAPPING)
R003	RS01Z154J-	R M-OXIDE FILM	1W 150K OHM J(TAPPING)
R004	RX03V124J-	R CEMENT	3W 120K OHM J VERTICAL
R005	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J
R006	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
R007	HRFT513JCA	R CHIP	1/10 51K OHM J 2012
R008	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R009	RD-AZ569J-	R CARBON FILM	1/6 5.6 OHM J
R010	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
R011	RW01Z568JN	R WIRE WOUND	1W 0.56 OHM J NON-INDUCT
R012	RW01Z568JN	R WIRE WOUND	1W 0.56 OHM J NON-INDUCT
R013	RD-2Z105J-	R CARBON FILM	1/2 1M OHM J
R014	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R015	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R016	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R017	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R018	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R019	HRFT120JCA	R CHIP	1/10 12 OHM J 2012
R020	RD-4Z565J-	R CARBON FILM	1/4 5.6M OHM J
R021	RD-4Z565J-	R CARBON FILM	1/4 5.6M OHM J
R023	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R024	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
R025	HRFT120JCA	R CHIP	1/10 12 OHM J 2012
R101	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R102	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R111	HRF8243JEA	R CHIP	1/8 24K OHM J 3216
R112	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R113	RD-2Z472J-	R CARBON FILM	1/2 4.7K OHM J
R114	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R115	HRF8123JEA	R CHIP	1/8 12K OHM J 3216
R116	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R117	RS02Z391J-	R M-OXIDE FILM	2W 390 OHM J (TAPPING)

LOC	PART-CODE	PART-NAME	PART-DESC
R118	HRFT561JCA	R CHIP	1/10 560 OHM J 2012
R119	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J
R121	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012
R122	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R123	RD-4Z432J-	R CARBON FILM	1/4 4.3K OHM J
R124	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R125	HRF8103JEA	R CHIP	1/8 10K OHM J 3216
R126	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012
R127	HRF8101JEA	R CHIP	1/8 100 OHM J 3216
R128	HRFT473JCA	R CHIP	1/10 47K OHM J 2012
R129	HRF8203JEA	R CHIP	1/8 20K OHM J 3216
R132	RN-AZ2001F	R METAL FILM	1/6 2.0K OHM F
R133	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J
R134	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R135	RN01Z1823F	R METAL FILM	1W 182K OHM F
R137	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R139	HRF8101JEA	R CHIP	1/8 100 OHM J 3216
R140	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J
R143	HRF8103JEA	R CHIP	1/8 10K OHM J 3216
R152	HRF8243JEA	R CHIP	1/8 24K OHM J 3216
R153	HRF8123JEA	R CHIP	1/8 12K OHM J 3216
R154	HRF8124JEA	R CHIP	1/8 120K OHM J 3216
R155	HRF8124JEA	R CHIP	1/8 120K OHM J 3216
R157	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R158	RS01Z270J-	R M-OXIDE FILM	1W 27 OHM J (TAPPING)
R185	RS02Z439J-	R M-OXIDE FILM	2W 4.3 OHM J (TAPPING)
R186	RS02Z439J-	R M-OXIDE FILM	2W 4.3 OHM J (TAPPING)
R187	RD-4Z914J-	R CARBON FILM	1/4 910K OHM J
R201	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R202	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R203	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R211	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
R212	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
R213	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R214	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R215	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R216	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012
R219	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R221	HRFT105JCA	R CHIP	1/10 1M OHM J 2012
R222	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R223	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R224	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R225	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R226	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R227	HRFT273JCA	R CHIP	1/10 27K OHM J 2012
R228	HRFT333JCA	R CHIP	1/10 33K OHM J 2012
R229	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
R230	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R231	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R232	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R233	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R234	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R235	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J
R239	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R240	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R241	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J
R242	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R243	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R250	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R251	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R301	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R302	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012
R303	HRFT821JCA	R CHIP	1/10 820 OHM J 2012
R304	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R305	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R306	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R307	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R308	HRFT303JCA	R CHIP	1/10 30K OHM J 2012
R309	RD-2Z120J-	R CARBON FILM	1/2 12 OHM J
R310	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012
R311	RD-2Z120J-	R CARBON FILM	1/2 12 OHM J
R312	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012
R313	RD-2Z120J-	R CARBON FILM	1/2 12 OHM J
R314	RD-2Z109J-	R CARBON FILM	1/2 1 OHM J
R317	RD-2Z109J-	R CARBON FILM	1/2 1 OHM J
R401	RN-AZ8871F	R METAL FILM	1/6 8.87K OHM F
R402	RN-AZ2941F	R METAL FILM	1/6 2.94K OHM F
R404	RN-AZ2211F	R METAL FILM	1/6 2.21K OHM F
R406	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R407	RN-AZ5621F	R METAL FILM	1/6 5.62K OHM F
R408	RD-2Z201J-	R CARBON FILM	1/2 200 OHM J
R409	HRFT150JCA	R CHIP	1/10 15 OHM J 2012
R410	RW02Z259JN	R WIRE WOUND	2W 2.5 OHM J NON-INDUCT
R411	RD-4Z309J-	R CARBON FILM	1/4 3 OHM J
R412	RD-4Z309J-	R CARBON FILM	1/4 3 OHM J
R413	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012
R414	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
R415	RN-AZ9091F	R METAL FILM	1/6 9.09K OHM F
R416	HRFT150JCA	R CHIP	1/10 15 OHM J 2012
R417	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R418	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
R419	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
R420	HRFT150JCA	R CHIP	1/10 15 OHM J 2012
R5007	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R5008	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R5009	HRF8274JEA	R CHIP	1/8 270K OHM J 3216
R501	RD-2Z331J-	R CARBON FILM	1/2 330 OHM J
R5010	HRF8274JEA	R CHIP	1/8 270K OHM J 3216
R5011	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R5012	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R5013	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R5014	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R5015	HRFT273JCA	R CHIP	1/10 27K OHM J 2012
R5019	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
R502	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R503	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R504	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R505	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012
R506	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
R507	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R508	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R509	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R510	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R511	RD-4Z209J-	R CARBON FILM	1/4 2 OHM J
R512	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
R513	HRF8101JEA	R CHIP	1/8 100 OHM J 3216
R514	RD-2Z681J-	R CARBON FILM	1/2 680 OHM J
R515	RX07V129J-	R CEMENT	7W 1.2 OHM J VRETICAL
R516	RD-2Z220J-	R CARBON FILM	1/2 22 OHM J
R517	HRFT123JCA	R CHIP	1/10 12K OHM J 2012
R518	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R519	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R520	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J
R521	RX03V390J-	R CEMENT	3W 39 OHM J VERTICAL
R522	RX03V390J-	R CEMENT	3W 39 OHM J VERTICAL
R523	RN-AZ2430F	R METAL FILM	1/6 243 OHM F
R524	RN-AZ2211F	R METAL FILM	1/6 2.21K OHM F
R525	RN-AZ2001F	R METAL FILM	1/6 2.0K OHM F
R526	RN-AZ1001F	R METAL FILM	1/6 1K OHM F
R527	RN-AZ3012F	R METAL FILM	1/6 30.1K OHM F
R529	RN-AZ1742F	R METAL FILM	1/6 17.4K OHM F
R530	RN-AZ1002F	R METAL FILM	1/6 10K OHM F
R531	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J
R532	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R533	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R534	HRFT133JCA	R CHIP	1/10 13K OHM J 2012
R535	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R536	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R537	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R538	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R539	HRFT302JCA	R CHIP	1/10 3K OHM J 2012
R540	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R541	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R542	RN-AZ1100F	R METAL FILM	1/6 110 OHM F
R543	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J
R545	HRFT183JCA	R CHIP	1/10 18K OHM J 2012
R546	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R547	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R548	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J
R549	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R550	HRFT243JCA	R CHIP	1/10 24K OHM J 2012
R551	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R552	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R553	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
R554	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J
R555	RN-AZ8259F	R METAL FILM	1/6 82.5 OHM F

LOC	PART-CODE	PART-NAME	PART-DESC
R556	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
R557	RS01Z154J-	R M-OXIDE FILM	1W 150K OHM J(TAPPING)
R558	RD-2Z109J-	R CARBON FILM	1/2 1 OHM J
R559	RS01Z479J-	R M-OXIDE FILM	1W 4.7 OHM J (TAPPING)
R560	RN01Z7509F	R METAL FILM	1W 75.0 OHM F
R561	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R562	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R563	RS02Z151J-	R M-OXIDE FILM	2W 150 OHM J (TAPPING)
R564	RS01Z270J-	R M-OXIDE FILM	1W 27 OHM J (TAPPING)
R565	HRFT303JCA	R CHIP	1/10 30K OHM J 2012
R566	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012
R567	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R568	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R569	RD-4Z479J-	R CARBON FILM	1/4 4.7 OHM J
R570	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
R571	RD-4Z822J-	R CARBON FILM	1/4 8.2K OHM J
R572	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012
R573	RD-4Z154J-	R CARBON FILM	1/4 150K OHM J
R574	RS01Z159J-	R M-OXIDE FILM	1W 1.5 OHM J (TAPPING)
R575	RS01Z159J-	R M-OXIDE FILM	1W 1.5 OHM J (TAPPING)
R578	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R579	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R580	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R581	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R582	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R583	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R584	HRF8274JEA	R CHIP	1/8 270K OHM J 3216
R585	HRF8274JEA	R CHIP	1/8 270K OHM J 3216
R586	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R587	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R588	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R589	HRF8224JEA	R CHIP	1/8 220K OHM J 3216
R590	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R591	RD-4Z124J-	R CARBON FILM	1/4 120K OHM J
R592	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R593	HRFT302JCA	R CHIP	1/10 3K OHM J 2012
R594	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R595	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R596	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R597	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R598	HRFT153JCA	R CHIP	1/10 15K OHM J 2012
R599	HRFT302JCA	R CHIP	1/10 3K OHM J 2012
R601	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J
R602	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J
R603	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
R604	HRF8221JEA	R CHIP	1/8 220 OHM J 3216
R605	HRFT123JCA	R CHIP	1/10 12K OHM J 2012
R606	HRFT683JCA	R CHIP	1/10 68K OHM J 2012
R607	RD-2Z153J-	R CARBON FILM	1/2 15K OHM J
R608	HRFT203JCA	R CHIP	1/10 20K OHM J 2012
R609	HRF8331JEA	R CHIP	1/8 330 OHM J3216
R610	RD-2Z474J-	R CARBON FILM	1/2 470K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R611	RD-2Z474J-	R CARBON FILM	1/2 470K OHM J
R612	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R613	RS02Z200J-	R M-OXIDE FILM	2W 20 OHM J (TAPPING)
R614	RX07V154J-	R CEMENT	7W 150K OHM J VERTICAL
R617	RN-AZ9530F	R METAL FILM	1/6 953 OHM F
R622	RD-AZ125J-	R CARBON FILM	1/6 1.2M OHM J
R623	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R628	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R629	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R631	HRF8331JEA	R CHIP	1/8 330 OHM J3216
R632	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J
R633	RD-4Z332J-	R CARBON FILM	1/4 3.3K OHM J
R634	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J
R640	RD-4Z105J-	R CARBON FILM	1/4 1M OHM J
R642	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012
R647	RD-2Z102J-	R CARBON FILM	1/2 1K OHM J
R648	HRFT362JCA	R CHIP	1/10 3.6K OHM J 2012
R649	RD-4Z471J-	R CARBON FILM	1/4 470 OHM J
R650	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J
R657	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R658	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
R659	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J
R660	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R661	RD-AZ623J-	R CARBON FILM	1/6 62K OHM J
R701	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R702	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R703	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R704	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R705	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R8001	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R8002	HRFT151JCA	R CHIP	1/10 150 OHM J 2012
R8003	HRFT151JCA	R CHIP	1/10 150 OHM J 2012
R8004	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R8005	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R8006	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R8007	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R8008	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J
R8009	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J
R801	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R8010	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R8011	HRFT201JCA	R CHIP	1/10 200 OHM J 2012
R8012	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R8013	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012
R8014	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R8015	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
R8016	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R8017	HRFT243JCA	R CHIP	1/10 24K OHM J 2012
R8018	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
R8019	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
R802	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R8020	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R8021	HRFT153JCA	R CHIP	1/10 15K OHM J 2012

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R803	RD-AZ220J-	R CARBON FILM	1/6 22 OHM J
R804	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R805	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R806	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R807	HRFT121JCA	R CHIP	1/10 120 OHM J 2012
R808	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J
R809	HRFT121JCA	R CHIP	1/10 120 OHM J 2012
R813	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R814	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R815	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R816	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R817	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R818	HRFT513JCA	R CHIP	1/10 51K OHM J 2012
R819	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R820	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R821	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R822	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R823	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R824	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R825	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R826	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R827	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R828	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R829	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R830	HRFT123JCA	R CHIP	1/10 12K OHM J 2012
R831	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R832	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R833	RD-AZ220J-	R CARBON FILM	1/6 22 OHM J
R834	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R835	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R836	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R837	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R838	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J
R839	HRFT121JCA	R CHIP	1/10 120 OHM J 2012
R840	HRFT123JCA	R CHIP	1/10 12K OHM J 2012
R841	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R842	HRFT821JCA	R CHIP	1/10 820 OHM J 2012
R843	HRFT513JCA	R CHIP	1/10 51K OHM J 2012
R844	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R845	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R846	HRFT123JCA	R CHIP	1/10 12K OHM J 2012
R847	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R848	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R849	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R850	HRFT123JCA	R CHIP	1/10 12K OHM J 2012
R851	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012
R852	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012
R853	HRFT105JCA	R CHIP	1/10 1M OHM J 2012
R854	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R855	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
R856	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
R857	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J

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R858	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
R859	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R860	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R861	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R862	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R863	RD-AZ220J-	R CARBON FILM	1/6 22 OHM J
R864	RN-AZ7509F	R METAL FILM	1/6 75.0 OHM F
R865	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R866	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R867	HRFT560JCA	R CHIP	1/10 56 OHM J 2012
R868	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J
R869	HRFT121JCA	R CHIP	1/10 120 OHM J 2012
R870	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R871	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R872	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R873	HRFT124JCA	R CHIP	1/10 120K OHM J 2012
R874	HRFT124JCA	R CHIP	1/10 120K OHM J 2012
R875	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R876	HRFT823JCA	R CHIP	1/10 82K OHM J 2012
R877	HRFT303JCA	R CHIP	1/10 30K OHM J 2012
R878	HRFT183JCA	R CHIP	1/10 18K OHM J 2012
R879	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R880	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R881	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J
R883	RD-4Z513J-	R CARBON FILM	1/4 51K OHM J
R884	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R885	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R886	HRFT183JCA	R CHIP	1/10 18K OHM J 2012
R887	HRFT823JCA	R CHIP	1/10 82K OHM J 2012
R888	HRFT303JCA	R CHIP	1/10 30K OHM J 2012
R889	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J
R891	RD-4Z513J-	R CARBON FILM	1/4 51K OHM J
R892	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R893	HRFT183JCA	R CHIP	1/10 18K OHM J 2012
R894	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R895	HRFT823JCA	R CHIP	1/10 82K OHM J 2012
R896	HRFT303JCA	R CHIP	1/10 30K OHM J 2012
R897	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J
R899	RD-4Z513J-	R CARBON FILM	1/4 51K OHM J
R900	RD-4Z124J-	R CARBON FILM	1/4 120K OHM J
R901	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R902	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R903	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R905	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
R906	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R907	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J

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R908	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
R909	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
R910	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R921	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R922	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R923	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R991	RC-2Z470J-	R CARBON COMP	1/2 47 OHM J
R992	RD-2Z562J-	R CARBON FILM	1/2 5.6K OHM J
R993	RC-2Z470J-	R CARBON COMP	1/2 47 OHM J
R994	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J
R995	RC-2Z470J-	R CARBON COMP	1/2 47 OHM J
R996	RD-4Z221J-	R CARBON FILM	1/4 220 OHM J
R997	RX03V100J-	R CEMENT	3W 10 OHM J VERTICAL
RA202	RA-A6X472J	R ARRAY	6P(5) 1/6 4.7K OHM J
RA501	RA-A8X472J	R ARRAY	8P(7) 1/6 4.7K OHM J
RA502	RA-A8X472J	R ARRAY	8P(7) 1/6 4.7K OHM J
⚠ RL001	5SC0102116	SW RELAY	ALA2PF12 1C-2P
RL501	5SC0101034	SW RELAY	KAM-S-112C 1C-1P(HR-703V)
SG991	DWSP201M--	SURGE ABSORBER	WSP-201M
SG992	4SG0D00104	SPARK GAP	S-23 1.5KV
SG993	DWSP201M--	SURGE ABSORBER	WSP-201M
SG995	DWSP201M--	SURGE ABSORBER	WSP-201M
SK001	9979300007	SOCKET CRT	ISDS08S
SW701	5S50101Z10	SW TACT	KPT-1115AM
SW702	5S50101Z10	SW TACT	KPT-1115AM
SW703	5S50101Z10	SW TACT	KPT-1115AM
SW704	5S50101Z10	SW TACT	KPT-1115AM
SW705	5S50101Z10	SW TACT	KPT-1115AM
SW706	5S50101Z10	SW TACT	KPT-1115AM
⚠ T001	5RM0000105	TRANS SMPS	DMT-103FH
⚠ T002	5RY0000003	TRANS SYNC	DST-602
T501	5R50000011	TRANS CHOPPER	DCT-103FB
T502	5R50000009	TRANS BUCK	DT-103F
T503	5R50000012	TRANS CHOPPER	DCT-103FC
T504	5R50000010	TRANS CHOPPER	DCT-103FA
T505	5MH0000067	COIL H-LINEARITY	TRL-103F
⚠ T506	5RD0000043	TRANS DRIVE	DDT-103F
⚠ T601	5RH0000134	FBT	HVGII-30
TH001	DTP8D15---	THERMISTOR	TP8D15
VR301	RV6121102P	R SEMI FIXED	CCT 063BT 1K OHM B TAP
VR302	RV6121102P	R SEMI FIXED	CCT 063BT 1K OHM B TAP
VR501	RV6121103P	R SEMI FIXED	CCT 063BT 10K OHM B TAP
VR502	RV6121102P	R SEMI FIXED	CCT 063BT 1K OHM B TAP
VR601	RV6121502P	R SEMI FIXED	CCT 063BT 5K OHM B TAP
X201	5XE24R000E	CRYSTAL QUARTZ	HC-49/U 24.00000MHZ 30PPM
X501	5PCSB500E5	RESONATOR CERA	CSB500E5 (500KHZ)

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